

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 6, 2005, 13:45:36 ; Search time 66 Seconds
(without alignments)
3306.049 Million cell updates/sec

Title: US-09-916-849A-3
Perfect score: 15545
Sequence: 1 MRSATGVLPTPPPPPLLL.....AGTDEDSGSEFLFFNPLH 2923

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents_AA.*

1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep.*
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep.*
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep.*
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep.*
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep.*
6: /cgn2_6/ptodata/1/iaa/backfiles.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1032	6.6	2110	4	US-09-270-767-46547
2	1004.5	6.5	884	2	US-08-465-976A-2
3	1004.5	6.5	884	2	US-08-982-412-2
4	846	5.4	1026	1	US-07-998-003A-95
5	846	5.4	1026	1	US-08-453-274B-95
6	846	5.4	1026	1	US-08-453-695A-95
7	846	5.4	1026	1	US-08-268-161A-95
8	846	5.4	1026	2	US-08-453-702A-95
9	846	5.4	1026	3	PCT-US93-12588-95
10	846	5.4	1026	5	PCT-US95-08071-95
11	846	5.4	1026	5	PCT-US95-08071-95
12	846	5.4	1203	1	US-07-998-003A-103
13	846	5.4	1203	1	US-08-453-274B-103
14	846	5.4	1203	1	US-08-453-695A-103
15	846	5.4	1203	1	US-08-268-161A-103
16	846	5.4	1203	2	US-08-453-702A-103
17	846	5.4	1203	3	US-09-099-639-103
18	846	5.4	1203	5	PCT-US93-12588-103
19	846	5.4	1203	5	PCT-US95-08071-103
20	735.5	4.7	1469	4	US-09-262-537-58
21	727	4.7	1466	4	US-09-262-537-20
22	727	4.7	1471	4	US-08-811-519-1
23	725	4.7	931	4	US-09-949-016-8988
24	719	4.6	1403	4	US-09-262-537-6
25	711.5	4.6	780	4	US-09-262-537-10
26	711.5	4.6	1114	4	US-09-262-537-34
27	711.5	4.6	1177	4	US-09-262-537-2

28	695.5	4.5	923	4	US-09-949-016-8986	Sequence 8986, Ap
29	694.5	4.5	932	4	US-09-949-016-8989	Sequence 8989, Ap
30	693.5	4.5	931	4	US-09-949-016-8987	Sequence 8987, Ap
31	691	4.4	1123	4	US-09-262-537-4	Sequence 4, Appli
32	653	4.2	934	4	US-09-949-016-6242	Sequence 6242, Ap
33	653	4.2	941	4	US-09-949-016-10983	Sequence 10983, A
34	653	4.2	941	4	US-09-949-016-10984	Sequence 10984, A
35	653	4.2	941	4	US-09-949-016-10985	Sequence 10985, A
36	639	4.1	932	4	US-09-949-016-8990	Sequence 8990, Ap
37	629	4.0	846	4	US-09-949-016-10381	Sequence 10381, A
38	628.5	4.0	797	1	US-08-453-695A-112	Sequence 112, App
39	628.5	4.0	797	1	US-08-268-161A-112	Sequence 112, App
40	628.5	4.0	797	2	US-08-453-702A-112	Sequence 112, App
41	628.5	4.0	797	3	US-09-099-639-112	Sequence 112, App
42	628.5	4.0	797	5	PCT-US95-08071-112	Sequence 112, App
43	626	4.0	823	4	US-09-949-016-6852	Sequence 6852, Ap
44	624.5	4.0	787	1	US-08-453-695A-110	Sequence 110, App
45	624.5	4.0	787	1	US-08-268-161A-110	Sequence 110, App

ALIGNMENTS

RESULT 1

US-09-270-767-46547

; Sequence 46547, Application US/09270767

; Patent No. 6703491

; GENERAL INFORMATION:

; APPLICANT: Homburger et al.

; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster

; FILE REFERENCE: File Reference: 7326-094

; CURRENT APPLICATION NUMBER: US/09/270.767

; CURRENT FILING DATE: 1999-03-17

; NUMBER OF SEQ ID NOS: 62517

; SOFTWARE: Patent In Ver. 2.0

; SEQ ID NO 46547

; LENGTH: 2110

; TYPE: PRT

; ORGANISM: Drosophila melanogaster

US-09-270-767-46547

Query Match 6.6%; Score 1032; DB 4; Length 2110;
Best Local Similarity 27.1%; Pred. No. 2.4e-64;
Matches 342; Conservative 162; Mismatches 486; Indels 274; Gaps 29;

Qy	190	VPENOPAGTPVASLRATD-----PDGEAGRLVETMDALFDSRSNOFFSLDPTVG	239
Db	1	VREDAALGHVVGSIPIERPADVVRNVSVEESFEDLRVTYTLNPLTKDLIEAFAFDIDRSG	60
Qy	240	AVTTABELDRKTSKTHVFRVTAQD---HGMPPRSALATLTILVTDNDHPVFQOEYKE	296
Db	61	NLVVARLLDREVQSEFRLEIRALDITASNNPQSSAI-TVKIEVADVNDNAPEWPDIDL	119
Qy	297	SLRENLEVGVELVTRATDGPANILYRL-----LEGSGGSPSEVFIDPRSGVIR	350
Db	120	QVSEATPVGTIIHNFTATDADTGNDLQYRLIRYFPOLNESQEQAMSLFRMDSLITGALS	179
Qy	351	TRGPVDRREESYOLTVEASDQGRDGPGR-STTAAVFLSVEDDNDNAPOF-----SEKR	403
Db	180	LQAPLDFEAVQYLLIYQALDQSSNVTERLQTSVTVRILIDANDHAFHVPNSGGKT	239
Qy	404	YVQVREDVTPGAPVLRVTASDRDKGSNAVHYHYSIMSGNARGQFYLDATQTDALDVVSL-	462
Db	463	----DYETTKETTLRVRAQDGRPLSNVSGLVTVQVLDINDNAPIFVSTFPQATVLRSV	518
Qy	300	PATEDVEKGRFNLIIIGAKDHQGEPEPKSKSLNHLIVQGSNNPPRFLQAVYRATILENV	359
Db	519	PLGYLVLHVQADADAGDNARLEVRL-AGVGHDPFTINNGTGMTISVAEALDREBDFVS	577
Qy	360	PGSFVLQVTKASLHGAENANLSYEIPAGVANDL-FHVDWQRGIIITTRGQDFRESQASYV	418
Db			

Db 515 PALGECEAAPCALQWTGSRRLGLDTSKDAANNQDPAL-TSGD-----ETSL-----GRA 565

Qy 2832 AOPHGILKKCLPTISEKSLRLP-----LEQCTGSSRGSSA-----SE 2872

Db 566 ORQRKILKNR-----LOYPVQTRGAPELSWCRAATLGHRAVPAASYGRIYA 614

Qy 2873 GSRGGPPPPPPROSLQOLN 2893

Db 615 GGGTSLSQPASRYSSREQLD 635

RESULT 3

US-08-982-412-2

; Sequence 2, Application US/08982412

; Patent No. 5958729

; GENERAL INFORMATION:

; APPLICANT: SOPPET, DANIEL R

; APPLICANT: LI, YI

; APPLICANT: ROSEN, CRAIG A

; APPLICANT: RUBEN, STEVEN M

; TITLE OF INVENTION: HUMAN G-PROTEIN RECEPTOR

; NUMBER OF SEQUENCES: 7

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: HUMAN GENOME SCIENCES, INC.

; STREET: 9410 KEY WEST AVENUE

; CITY: ROCKVILLE,

; STATE: MD

; COUNTRY: US

; ZIP: 20850

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/982,412

; FILING DATE:

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: BROOKES, ANDERS A

; REGISTRATION NUMBER: 36,373

; REFERENCE/DOCKET NUMBER: PF181PCT2

; TELEPHONE: (301) 309-8504

; TELEFAX: (301) 309-8439

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 884 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-08-982-412-2

Query Match 6.5%; Score 1004.5; DB 2; Length 884;

Best Local Similarity 37.3%; Pred. NO. 5.1e-63;

Matches 254; Conservative 103; Mismatches 213; Indels 111; Gaps 20;

Qy 2278 INTVPVTSVHDELLPRALDKPVTVQFRLLETERTKPICVFNHNSILVSGTGWGWSAR 2337

Db 1 MNSPVSVAVFHGRNFRLEGIESPLISLEFRLLQTNRSKALCVQWDPPGLAEQHWGTAR 60

Qy 2338 GCEVFRNESHVSCQCNHMTSPAVLMDVSRRE--NGEILPLKTLTYVALGVTLAALLTF 2395

Db 61 DCELVHRNGSHARCRCSTGTGTGVLMDASPRERLEGDELLAVFTHVVVAVSVAALVLA 120

Qy 2396 PFLLRLRLRNSQHGIRNLTAAQLAQVFLGGINQADLPFACTVIAILLHFLVLTFS 2455

Db 121 AILLSRLSKNGVGHANVAALGVABELLFLGIRHTRHNLQVCTAVAILHFFLSTFA 180

Qy 2456 WALLLEALHLYALTEVRDVTGPMRFYVYMLGWPFAFITGLAVGLDPEGVGNPDPCWLSI 2515

Db 181 WLFVQGLHLYRQVBEPRNVDRGMRFYHALGWGVPAVLTLGLAVGLDPEGVGNPDPCWLSV 240

Qy 2516 YDTLWSPAGVPAFVMSVFLYIILAAARASCA-AORQGFKEKPGVSGLOPSFAVILLLSA 2574

Db 241 HEPLIWSFAGVPLVIVMNGTWFLLAARTSCSTGOREA--KKTSAITLRSFLLLLLSA 298

Qy 2575 TWLLALLSVNSDTLLFHYLPATCNCIOGPFIFLSYVVLKKEVRKALKLAC-SRKPSPOPA 2633

Db 299 SWLFGLLAVNHSILAFHYLHAGLCGLQGLAVILLFCVLNADARAAMFACIGRKAAPBEA 358

Qy 2634 LTTKSTLTSSYNCPSPYADGRLYQ-PYGDSAGSLHSTSRGKSQP-----SYI--PPL 2683

Db 359 RPAPGLGPGAYNTALPEESGLIRITLIGASTVSSVSARSGRGTQDDQSGRGSYLURDNVL 418

Qy 2684 LREESA-----LNPQGGPPGLG-----DPGSLFLEGQDQDHPDTSDSLSDQ 2730

Db 419 VRHGSAAHTDHSLOAHAGPTDLVDVDFMRDAGA-----DSDSDSLSELEBER 466

Qy 2731 SGVSASTHSSDSEEEEEEEEAAPPGSGWDSLLPGCAERLPLHSTPKDGGPGPKAPW 2790

Db 467 SLSPSSESEDNGTRGRFQPLCRAGQ-----SERLLTH--PDVDGNDLLSYW 514

Qy 2791 PG-----DFGT-----TAKESGNGAPEERLRENGDALSRGSLGPLGSS 2831

Db 515 PALGECEAAPCALQWTGSRRLGLDTSKDAANNQDPAL-TSGD-----ETSL-----GRA 565

Qy 2832 AOPHGILKKCLPTISEKSLRLP-----LEQCTGSSRGSSA-----SE 2872

Db 566 ORQRKILKNR-----LOYPVQTRGAPELSWCRAATLGHRAVPAASYGRIYA 614

Qy 2873 GSRGGPPPPPPROSLQOLN 2893

Db 615 GGGTSLSQPASRYSSREQLD 635

RESULT 4

US-07-998-003A-95

; Sequence 95, Application US/07998003A

; Patent No. 5643781

; GENERAL INFORMATION:

; APPLICANT: Suzuki, Shintaro

; TITLE OF INVENTION: Protocadherin Materials and Methods

; NUMBER OF SEQUENCES: 107

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &

; ADDRESSEE: Bicknell

; STREET: 20 South Clark Street

; CITY: Chicago

; STATE: Illinois

; COUNTRY: USA

; ZIP: 60603

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/07/998,003A

; FILING DATE:

; CLASSIFICATION: 435

; ATTORNEY/AGENT INFORMATION:

; NAME: No. 5643781and, Greta E.

; REGISTRATION NUMBER: 35,302

; REFERENCE/DOCKET NUMBER: 30903

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 312/346-5750

; TELEFAX: 312/984-9740

; TELEX: 25-3856

; INFORMATION FOR SEQ ID NO: 95:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 1026 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-07-998-003A-95

Db 612 QVQLSV---EQDNGDFVIONGTGTLSSLSFDRSQSYTYTQLKAVDGVPPRAYGVGT 668
Qy 909 VTLDVNDNPPVF--EQDEFDFVFEENSPIGLAVARVATATPDDEGTNAQIMYQIVEGNIP 966
Db 669 INVLDENDNAPYITAPSNTHKLLTPQTRLGETVQVAABEDFDSGVNAELIYSIAGGNPY 728
Qy 967 EVFQDLPFSGELTALVDLYEDREYVLIQATSAPLVSRATVHRLDRNDNPPVLGN- 1025
Db 729 GLFQIGSHGSAITLLEKEIERHHGLHRLV-----VKVSDRG-KPPRYGTA 772
Qy 1026 -FEILFNNTNRSSSPFGGAIGRPAH-----DPDISDSLTY--SPERGNEI 1070
Db 773 LVHLYVNETLANRT-----LLETLLGHSGLTDLIDIDAGDPYERSKQGRNII 820
RESULT 6
US-08-453-695A-95
; Sequence 95, Application US/08453695A
; Patent No. 5708143
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,695A
; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5708143and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32658
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-453-695A-95
Query Match 5.4%; Score 846; DB 1; Length 1026;
Best Local Similarity 29.1%; Pred. No. 1.7e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;
Qy 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGGSPSEVFIEDPRSG-VI 349
Db 33 GHATRVVYKVEEQPPNTLIGSLAADYGFDPVGHLYKLEVG-----APYLAVDGTGDI 87
Qy 350 RTRGPDVREEVESVQ-----LTVEASDQGRDPGPRSTTAAPVLSVEDNDNAPQ 398
Db 88 TTETSIDREGLRECONQLPGDPCILEFEVSTDLVQNASPRLLBQI--EVQDINDNTPN 145
Qy 399 FSEKRYVQVREDVTPGAPVLRVTASDRDKSGNAVHYSINSGNARGQFYLDAGTALDV 458
Db 146 FASPVTILAIPTNIGSLFFPIPLASDRDAGPVGASVELQVADQ-----EEKQPLIV 200

Qy 459 VSPLDYETTKETYLVRVAQDGGRRPLSNVSGSLVTVQVLVDINDNAPIFVSTFPQATVLESV 518
Db 201 MGNLDRWRPWSYDITIKVQDGGSPRA--TSALLFVTVLTDNDNAPKFERPSELSSENS 259
Qy 519 PLGVVLVHQAIDADAGNARLEYRLAGVGHDRP-----FTINNGTGWISVAALDREE 572
Db 260 PIHGSVLOKANSDGQANAEIETP-----HOAEVVRLLRLDRNTGLIIVQCPVDRED 315
Qy 573 VDFSVFGVEARDHGTPTALTASASVTVLDVNDNPPVF-----TOPEYTVRLNDA 624
Db 316 LSTLRFVSLAKDRGTNPKSARAQVVTVKMDNDNAPTIEIRIGLIVTHQDGMANISEDVA 375
Qy 625 VGTSVTVTSVAVDRD--AHSVITVQITSGNTRRSITSQSGG-----LVSIALPLDYKL 677
Db 376 BETAVALLVQVSDRDEGENAAVTC--VWAGDVPFQLRQASSETGSDSKKKYFLQTTPLDYEK 434
Qy 678 EROYVLAVTASDGR---QDTAQIVNVNTDANTHRPVFQSFHYTVNVNEDRPAGTIVVLI 734
Db 435 VKDTIEIVAVDSGNPPLSTNSLKQVQVVDNDNAPVFTQSVTEVAFENNKPGEVIAEI 494
Qy 735 SATDEDTGENARITYFMEDSIQ-----FRIDADTCAVTTQAELEDVEDQVSYTLAITAR 788
Db 495 TASDADSGSNAELVYSLE---PEPAAGLFTISPETGEIQVKTSLDREQRESYELKVVA 551
Qy 789 DNGIPQKSDTYLLEILVNDVNDNAPQFLRSYQSGVYEDVPPFTSVLIQISATDRDSGLNG 848
Db 552 DRGSPSLQGTATVLNVLDNDNDPKFMLSYNFNMENMPALSPVGMVTVIDGDKGENA 611
Qy 849 RVFTYFGDGDGDGFVETSGIVRTLRLRLDRNENVAQVYLRAVADKMPGPARTPMBVT 908
Db 612 QVQLSV---EQDNGDFVIONGTGTLSSLSFDRSQSYTYTQLKAVDGVPPRAYGVGT 668
Qy 909 VTLDVNDNPPVF--EQDEFDFVFEENSPIGLAVARVATATPDDEGTNAQIMYQIVEGNIP 966
Db 669 INVLDENDNAPYITAPSNTHKLLTPQTRLGETVQVAABEDFDSGVNAELIYSIAGGNPY 728
Qy 967 EVFQDLPFSGELTALVDLYEDREYVLIQATSAPLVSRATVHRLDRNDNPPVLGN- 1025
Db 729 GLFQIGSHGSAITLLEKEIERHHGLHRLV-----VKVSDRG-KPPRYGTA 772
Qy 1026 -FEILFNNTNRSSSPFGGAIGRPAH-----DPDISDSLTY--SPERGNEI 1070
Db 773 LVHLYVNETLANRT-----LLETLLGHSGLTDLIDIDAGDPYERSKQGRNII 820
RESULT 7
US-08-268-161A-95
; Sequence 95, Application US/08268161A
; Patent No. 5798224
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/268,161A
; FILING DATE: June 27, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Young J. Suh
; REGISTRATION NUMBER: P-41,337


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; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31811
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US93-12588-95

Query Match 5.4%; Score 846; DB 5; Length 1026;
Best Local Similarity 29.1%; Pred. No. 1.7e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

QY 305 GVEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVFEDIPRSG-VI 349
DB 33 GHATRVVVKVPEEQPNTLIGSLAADYGFDPVGHLYKLEVG-----APYLRVDGKTGDF 87
QY 350 RTRGFPVDREEVESYQ-----LTVRASDQGRDPGRPTTAAVFLSVEDNDNAPQ 398
DB 88 TTETSIDREGLRECONQLPGDCILBEFVSITDLVQNASPLLEGQI--EVQDINDNTPN 145
QY 399 FSEKRYVVQVREVTGPAPVLRTASDRDKGSNAVHYISMGVARGQFYLDATQALDV 458
DB 146 FASPVTILAIPTNIGSLFPIPLASDRDAGPNGVASVELQVAEDQ-----BEKQPQLIV 200
QY 459 VSPLDYETTKYTLRVAQDGRPPLNSVGLVTVQVLDINDNAPIFVSTPFOATVLESV 518
DB 201 MGNLDREWDSDYDITIKVQDGGSPRA--TSALLRVTVLTDNDNAPKPERPSYEAELSENS 259
QY 519 PLGYLVLVHQAIDADAGNARLEYRLAGVGHDFP-----FTNNGTGWISVAEALDREE 572
DB 260 PIGHSVIQVKANDSDQGANAEIYTF----HQAPEVVRLLRLDRNTGLITVQGPVDRD 315
QY 573 VDFISFGVEARDHGTPTALTASASVTVLVDVNDNPTF-----TQPEYTVRLNEDAA 624
DB 316 LSTLRFSLAKDRGTNPKSARAQVVVTVKMDNDNAPTIEIRIGLVTHQDGMANISDVA 375
QY 625 VGTSVTVTVSADRD--AHSVITYQITSGNTRNRESITSQSGG-----LVSLALPLDYKL 677
DB 376 BETVALVQVSDREGENAVTC--VWAGDVPFQURQASSETGSDSKKKYFLQTTPLDYEK 434
QY 678 ERQYVLAVTASDGTGR---QDTAQIVVNVVTDANTHRPVFQSSHVTVNVNEDRPAAGTVVLI 734
DB 435 VKDYITIEIVADVSGNPPLSLTSLKQVQVNDNAPVFTQSVTEVAFPPENKPEGEVIAEI 494
QY 735 SATBEDTCENARIYTFMEDSIPQ-----FRIDADTCAVTTQAELEDVQSVTILAITAR 788
DB 495 TASDADSGSNAEVLVSLF---PEPAAKGLFTISPETGEIQVTKSLDREQRESVELKVAA 551
QY 789 DNGIPQKSDTTYLETLVNDVNDNAPQFLRDSYQGSVVEDVPPFTSVLIQISATDRDGLNG 848

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DB 552 DRGSPSLQGTATVLNVLDNDNDPKFMLSQYNFVNMENPALSVPVGMVTVTDGDKGENA 611
QY 849 RVFTTFQGGDDGDFIVESTSGIVRTILRLDRENAQYVLRAYAVDKGMPARTPMEVT 908
DB 612 QVQLSV---EQDNGDFVIQNGTGTILSSLSFDRQQSTYTFQLKAVDGGVPPRSAYGVGT 668
QY 909 VTVLDVNDNPPVF--EODEPDPVFEENSPIGLAVARTATDPDGTNAQIMYQIVEGNIP 966
DB 669 INVLDENDNAPIYAPNTSKLTPQTRIGETVSQVAEDFDSGVNAELIYSTAGNPY 728
QY 967 EVFQDIFSGELTALVDLDYEDREPEYVLVIQATSAPLVSRATVHVRLLDRNDNPPVLGN- 1025
DB 729 GLFQIGSHSGAITLEKEIERHHHGLRLV-----VKVSDRG-KPPRYGTA 772
QY 1026 -FEILFNMYVNRSSSPFGGAIGRVPAH-----DPDISLSLY--SFERGNEL 1070
DB 773 LVHLYVNETLANRT-----LLETLLGHS�DTPLDIDTAGDPEYERSKQRGNIL 820

RESULT 11
PCT-US95-08071-95
; Sequence 95, Application PC/TUS9508071
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESS: Borun
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08071
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE: 23 DEC 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 95:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1026 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; PCT-US95-08071-95

Query Match 5.4%; Score 846; DB 5; Length 1026;
Best Local Similarity 29.1%; Pred. No. 1.7e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

QY 305 GVEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVFEDIPRSG-VI 349
DB 33 GHATRVVVKVPEEQPNTLIGSLAADYGFDPVGHLYKLEVG-----APYLRVDGKTGDF 87

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Qy 350 RTRGPDREEVESYQ-----LTVEASDQGRDGPSTTAAVFLSVEDDNDNAPQ 398
Db 88 TTETSIDREGRECONQLPGDPCILEFEVSITDLVQNASPRLLBQI--EVQDINDNTPN 145
Qy 399 FSEKRYVQVREDVTPGAPVLRTVTSASDRDKGSAVHVHYSIMSGNARGQFYLDADQALDV 458
Db 146 PASPVITLAIPTENTNIGSLFPIPLASDRDAGNGVASVELQVAEDQ-----BEKQPQLIV 200
Qy 459 VSPLDYETTKYTLRVRAQDGRPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESV 518
Db 201 MGNLDRERWSDYDLTIKVQDGGSPRA--TSALLRVTVLTDNDNAPKFERPSEYAELESENS 259
Qy 519 PLGLVILHVQALDADAGNARLEYRLAGVGHDFP-----FTINNGTCWISVAELDREE 572
Db 260 PIGHSVIOVKANDSQGANAEIETFF---HOAPEVVRLLRLDRNTGLITVQGPVDRK 315
Qy 573 VDFYSFGVEARDHGTPTALTASASVTVLVDVNDNPTF-----TOPEYTVRLNEDAA 624
Db 316 LSTLRFSLAKDRGTNPKSARAQVVTVKMDNDNAPTIEIRGIGLVTHQDGMANISEDVA 375
Qy 625 VGTSVTVTSVAVDRD--AHSVITYQITSGNTRNRFISITQSOGG-----LVSLALPLDYKL 677
Db 376 EETAVALVQVSDRDEGENAAVTC--VWAGDVPFQLRQASSETGDSKCKYFLQTTTPLDYEK 434
Qy 678 ERQYVLAVTASDGT--QDTAQIVVNVTDANTHRPVFQSSHYYTVNVEDRPAGTTVLI 734
Db 435 VKDYTIEIVAVDSGNPPLSLSTNSLKQVVDVNDNAPVFTQSVTEVAPENKNGPGEVIAEI 494
Qy 735 SATDEDTGENARITYFMEDSIPO-----FRIDADTGAVTTQAEILDVEDQVSYTLAITAR 788
Db 495 TASDADSGSNAELVYSLE---PEPAKGLFTISPETGEIQVKTSLDRQRESYELKVAA 551
Qy 789 DNGIPQKSDTTYLLEILVNDVNDNAPQFLRDSYQGSVYEDVPFTTSVLQISATDRDGLNG 848
Db 552 DRGSPSLQGTATVLNVLDNCNDNDPKFMLSNGYFNVSMENMPALSPVGWTVTVIDGKGENA 611
Qy 849 RVFTYFQGGDGDGFIVESTSGIVRTLRLDRNVAQVLRAYAVDKGMPARTPMEVT 908
Db 612 QVQLSV---EQDNGDFVIQNGTGTILSLSPDREQQSTYTFQLKXAVDGVGVPERSAYVGT 668
Qy 909 VTVLVDVNDNPPVF--EODEPFDVFEENSPIGLAVARTATDPDDEGTNAQIMYQIVEGNIP 966
Db 669 INVLDENDNAPYITAPNTSHKLLTPQTRLGETVSVAAEDFDSGVNAELIYSIAGNPNY 728
Qy 967 EVFQDIFPSGBLTALVDYBDRPEYVLVIQATSAPLVSRATVHVRLDRNDNPPVLGN- 1025
Db 729 GLFQIGSHSGAITLEKEIERRHGLRLV-----VKVSDRG-KPPRYGTA 772
Qy 1026 -FEILFNNTNRSSSPGGAIGRVPAH-----DPDISDSLT--SPERGNEI 1070
Db 773 LVHLYVNETLANRT-----LLETLLGHSLDTPLDIDDIAGDPEYERSKQRGNIL 820

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RESULT 12

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US-07-998-003A-103
; Sequence 103, Application US/07998003A
; Patent No. 5643781
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Bicknell
; STREET: 20 South Clark Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS

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; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/998.003A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5643781and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 30903
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/346-5750
; TELEFAX: 312/984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 103:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1203 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-998-003A-103

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Query Match      5.4%, Score 846; DB 1; Length 1203;
Best Local Similarity 29.1%; Pred. No. 2.3e-51;
Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

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Qy 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVFEIDPRSG-VI 349
Db 33 GHATRVVYKVPPEQPNTLIGSLAADYGFDPVGHLYKLEVG-----APYLRVDGKTGDI 87
Qy 350 RTRGPDREEVESYQ-----LTVEASDQGRDGPSTTAAVFLSVEDDNDNAPQ 398
Db 88 TTETSIDREGRECONQLPGDPCILEFEVSITDLVQNASPRLLBQI--EVQDINDNTPN 145
Qy 399 FSEKRYVQVREDVTPGAPVLRTVTSASDRDKGSAVHVHYSIMSGNARGQFYLDADQALDV 458
Db 146 PASPVITLAIPTENTNIGSLFPIPLASDRDAGNGVASVELQVAEDQ-----BEKQPQLIV 200
Qy 459 VSPLDYETTKYTLRVRAQDGRPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESV 518
Db 201 MGNLDRERWSDYDLTIKVQDGGSPRA--TSALLRVTVLTDNDNAPKFERPSEYAELESENS 259
Qy 519 PLGLVILHVQALDADAGNARLEYRLAGVGHDFP-----FTINNGTCWISVAELDREE 572
Db 260 PIGHSVIOVKANDSQGANAEIETFF---HOAPEVVRLLRLDRNTGLITVQGPVDRK 315
Qy 573 VDFYSFGVEARDHGTPTALTASASVTVLVDVNDNPTF-----TOPEYTVRLNEDAA 624
Db 316 LSTLRFSLAKDRGTNPKSARAQVVTVKMDNDNAPTIEIRGIGLVTHQDGMANISEDVA 375
Qy 625 VGTSVTVTSVAVDRD--AHSVITYQITSGNTRNRFISITQSOGG-----LVSLALPLDYKL 677
Db 376 EETAVALVQVSDRDEGENAAVTC--VWAGDVPFQLRQASSETGDSKCKYFLQTTTPLDYEK 434
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Db 435 VKDYTIEIVAVDSGNPPLSLSTNSLKQVVDVNDNAPVFTQSVTEVAPENKNGPGEVIAEI 494
Qy 735 SATDEDTGENARITYFMEDSIPO-----FRIDADTGAVTTQAEILDVEDQVSYTLAITAR 788
Db 495 TASDADSGSNAELVYSLE---PEPAKGLFTISPETGEIQVKTSLDRQRESYELKVAA 551
Qy 789 DNGIPQKSDTTYLLEILVNDVNDNAPQFLRDSYQGSVYEDVPFTTSVLQISATDRDGLNG 848
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Qy 849 RVFTYFQGGDGDGFIVESTSGIVRTLRLDRNVAQVLRAYAVDKGMPARTPMEVT 908
Db 612 QVQLSV---EQDNGDFVIQNGTGTILSLSPDREQQSTYTFQLKXAVDGVGVPERSAYVGT 668
Qy 909 VTVLVDVNDNPPVF--EODEPFDVFEENSPIGLAVARTATDPDDEGTNAQIMYQIVEGNIP 966
Db 669 INVLDENDNAPYITAPNTSHKLLTPQTRLGETVSVAAEDFDSGVNAELIYSIAGNPNY 728

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QY 967 EVFQIDIFSGELTALVDLYEDREYVLTQATSAPLVSRATVHVRLDRNDNPPVLGN- 1025
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 QY 1026 -FEILFNYYVNRSSPPGGAIGRVPAAH-----DPDISDSLTYY--SFERGNEL 1070
 Db 773 LVHLYVNETLANRT-----LLETLLGHSLDTPLDIDDIAGDPEYRSKQGNIL 820

RESULT 13
 US-08-453-274B-103
 ; Sequence 103, Application US/08453274B
 ; Patent No. 5663300
 ; GENERAL INFORMATION:
 ; APPLICANT: Suzuki, Shintaro
 ; TITLE OF INVENTION: Protocadherin Materials and Methods
 ; NUMBER OF SEQUENCES: 107
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
 ; STREET: 6300 Sears Tower, 233 South Wacker Drive
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: United States of America
 ; ZIP: 60606-6402
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/453,274B
 ; FILING DATE: 30-MAY-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5663300and, Greta E.
 ; REGISTRATION NUMBER: 35,302
 ; REFERENCE/DOCKET NUMBER: 32660
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312/474-6300
 ; TELEFAX: 312/474-0448
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 103:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1203 amino acids
 ; TYPE: amino acid
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: protein
 ; US-08-453-274B-103

Query Match 5.4%; Score 846; DB 1; Length 1203;
 Best Local Similarity 29.1%; Pred. No. 2.3e-51;
 Matches 243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;

QY 305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGSPSEVFEDIPRSG-VI 349
 Db 33 GHATRVYKYPEEQPPNTLIGSLAADYFPDVGHLKYLEVG-----APYLRVDGKTDIF 87
 QY 350 KTRGPVDEEVESYQ-----LTVASDQGRDPGRSTTAAVFLSVEDNDNAPQ 398
 Db 88 TTETSIDREGUREQONLPGDPCILEPEVSTLDLVQNASPLLEGQI--EVQDINDNTPN 145
 QY 399 PSEKRYVVOVREDYTPGAPVLRTVATSDRDKGSNAVHYSIMSGNARGQFVLDATGALDV 458
 Db 146 FASPVTILAIPTNNTIGSLFPIPLASDRDAGPNGVASYLEQVAEDQ-----SEKQQLIV 200
 QY 459 VSPLDYETTKYTLRVRAQDGRPLSNVSGLVTVQVLDINDNAPIFVSTFPQATVLESV 518
 Db 201 MGNLDRWDSYDLTIKIVQDGSPPRA-TSALLRVTLTDNDNAPKPERESYEAELESENS 259
 QY 519 PLGYLVHLVQDAIDADAGNARLEVRLAGVGHDFP-----FTINNGTGWISVAEALDREE 572
 Db 260 PIGHSVIOVKANDSDQGANABIEYTF-----HQAPEVVVRLRLRLDRNTGLITVQGPVDRED 315
 QY 573 VDFYSFGVEARDHGTPTAL TASASVSVTVLDVNDNPPTF-----TQPEYTVRLNEDAA 624

Db 316 LSTLRFSLAKDRGTNPKSARAQVVVTVKMDNDNAPTIEIRGILGLVTHDGMANISEDVA 375
 QY 625 VGTSVTVSAVDRD--AHSVITYQITSGNTRNRFISITSSQSGG-----LVSLALPLDYKL 677
 Db 376 BETAVLVQVSDRDEGENAAVTC--VWAGDVFPQLRQASSETGSDSKKXYFLQTTPLDYEK 434
 QY 678 ERQVYLVATSDGTR---QDTAQIVNVNVTANTHRPVPFQSSHYTVANVEDRPPAGTTVVLI 734
 Db 435 VKDYTIEIVAVDSGNPPLSSTNSLKQVVDVNDNAPVFTQSVTEVAFPPENKPKGEVIAEI 494
 QY 735 SATDEDTGENARITYFMEDSIPQ-----FRIDADTGAVTTQAEALDYEDQVSYTLAITAR 788
 Db 495 TASDADSGSNAELVYSLE---PEPAKGLFTISPETGEIQVKTSLDREQRESYELKVAA 551
 QY 789 DNGIPQKSDTTYLBILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISATDBDSGLNG 848
 Db 552 DRGSPSLQGTATVLNVNLDNDNDPKFMLSCTYNSVNMENPALSPVGMVTVIDGDKGENA 611
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 QY 909 VTVLVDNDNPPVF--EQDEFDFVVEENSPICGLAVARTATDPDEGTNAQIMYQIVEGNIP 966
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 QY 967 EVFQIDIFSGELTALVDLYEDREYVLTQATSAPLVSRATVHVRLDRNDNPPVLGN- 1025
 Db 729 GLFQIGSHGSAITLEKEIERHHGLRLV-----VKVSDRG-KPPRYGTA 772
 QY 1026 -FEILFNYYVNRSSPPGGAIGRVPAAH-----DPDISDSLTYY--SFERGNEL 1070
 Db 773 LVHLYVNETLANRT-----LLETLLGHSLDTPLDIDDIAGDPEYRSKQGNIL 820

RESULT 14
 US-08-453-695A-103
 ; Sequence 103, Application US/08453695A
 ; Patent No. 5708143
 ; GENERAL INFORMATION:
 ; APPLICANT: Suzuki, Shintaro
 ; TITLE OF INVENTION: Protocadherin Materials and Methods
 ; NUMBER OF SEQUENCES: 115
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
 ; STREET: 233 South Wacker, 6300 Sears Tower
 ; CITY: Chicago
 ; STATE: Illinois
 ; COUNTRY: USA
 ; ZIP: 60606
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/453,695A
 ; FILING DATE:
 ; CLASSIFICATION: 530
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: No. 5708143and, Greta E.
 ; REGISTRATION NUMBER: 35,302
 ; REFERENCE/DOCKET NUMBER: 32658
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 312/474-6300
 ; TELEFAX: 312/474-0448
 ; TELEX: 25-3856
 ; INFORMATION FOR SEQ ID NO: 103:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1203 amino acids
 ; TYPE: amino acid

	TOPOLOGY: linear	
	MOLECULE TYPE: protein	
	US-08-453-695A-103	
	Query Match	5.4%; Score 846; DB 1; Length 1203;
	Best Local Similarity	29.1%; Pred. No. 2.3e-51;
	Matches	243; Conservative 131; Mismatches 346; Indels 114; Gaps 24;
QY	305 GYEVLTVRATDGDAPPNANI-----LYRLLEGSGGSPSEVFIDPRSG-VI	349
DB	33 GHATRIVVYKPEEQPNTLIGSLAADYGPPDVGHLYKLEVG-----APYLRV	87
QY	350 RTEGPVDREEVESYO-----LTVEASDOGRDPGRSTTAAPVLSVEDNDNAQ	398
DB	88 TTETSIDREGLRQCQLPDGCILEFEVSITDLVNQASPRLLLEGQI--EVDQINDNTPN	145
QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
DB	146 FASPVTITLAIPENTNIGSIFPIPLASDRDAGPNGVASVELQVAEDQ-----EEKOPQLIV	200
QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
DB	201 MGILDRERWSDYLTIKVQDGGSPRA-TSALLRVTLTDNDNAPKPERPSYEAELSENS	259
QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
DB	260 PIGHSVIQVKANDSQGANAEIEYTF---HQAEVVRRLRLDRNTGLITVQGFVDRED	315
QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
DB	146 FASPVTITLAIPENTNIGSIFPIPLASDRDAGPNGVASVELQVAEDQ-----EEKOPQLIV	200
QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
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QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
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QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
DB	146 FASPVTITLAIPENTNIGSIFPIPLASDRDAGPNGVASVELQVAEDQ-----EEKOPQLIV	200
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QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
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QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
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QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
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QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
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QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
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QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
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QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
DB	146 FASPVTITLAIPENTNIGSIFPIPLASDRDAGPNGVASVELQVAEDQ-----EEKOPQLIV	200
QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
DB	201 MGILDRERWSDYLTIKVQDGGSPRA-TSALLRVTLTDNDNAPKPERPSYEAELSENS	259
QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
DB	260 PIGHSVIQVKANDSQGANAEIEYTF---HQAEVVRRLRLDRNTGLITVQGFVDRED	315
QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
DB	146 FASPVTITLAIPENTNIGSIFPIPLASDRDAGPNGVASVELQVAEDQ-----EEKOPQLIV	200
QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
DB	201 MGILDRERWSDYLTIKVQDGGSPRA-TSALLRVTLTDNDNAPKPERPSYEAELSENS	259
QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
DB	260 PIGHSVIQVKANDSQGANAEIEYTF---HQAEVVRRLRLDRNTGLITVQGFVDRED	315
QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
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QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
DB	201 MGILDRERWSDYLTIKVQDGGSPRA-TSALLRVTLTDNDNAPKPERPSYEAELSENS	259
QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
DB	260 PIGHSVIQVKANDSQGANAEIEYTF---HQAEVVRRLRLDRNTGLITVQGFVDRED	315
QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
DB	146 FASPVTITLAIPENTNIGSIFPIPLASDRDAGPNGVASVELQVAEDQ-----EEKOPQLIV	200
QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
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QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
DB	260 PIGHSVIQVKANDSQGANAEIEYTF---HQAEVVRRLRLDRNTGLITVQGFVDRED	315
QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
DB	146 FASPVTITLAIPENTNIGSIFPIPLASDRDAGPNGVASVELQVAEDQ-----EEKOPQLIV	200
QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
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QY	519 PLGYLVHQAIDADAGDNARLEYLAGVGHDFP-----FTINNGTGWISVAELDREE	572
DB	260 PIGHSVIQVKANDSQGANAEIEYTF---HQAEVVRRLRLDRNTGLITVQGFVDRED	315
QY	399 FSKRYVVQVREDVTGPAVLRTASDRDKGSNAVHYISMSGNARGOFYLDADOTGALDV	458
DB	146 FASPVTITLAIPENTNIGSIFPIPLASDRDAGPNGVASVELQVAEDQ-----EEKOPQLIV	200
QY	459 VSPLDYETTKYTLRVRAQDGRRPLSNVGLVTVQVLDINDNAPIFVSTPFQATVLESV	518
DB	201 MGILDRERWSDYLTIKVQDGGSPRA-TSALLRVTLTDNDNAPKPERPSYEAELSENS	2

RESULT 15

[illegible]

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 6, 2005, 13:55:11 ; Search time 250 Seconds

(without alignments)
3881.712 Million cell updates/sec

Title: US-09-916-849A-3

Perfect score: 15545

Sequence: 1 MRSPTATGVLPPTPPPLLLL.....AGTVDEDSGSEFLFFNPLH 2923

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1418010 seqs, 331997259 residues

Total number of hits satisfying chosen parameters: 1418010

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15545	100.0	2923	9 US-09-788-711A-4	Sequence 4, Appli
2	15545	100.0	2923	10 US-09-916-849A-3	Sequence 3, Appli
3	15545	100.0	2923	14 US-10-225-567A-524	Sequence 524, App
4	15545	100.0	2923	14 US-10-174-677-29	Sequence 29, Appl
5	15545	100.0	2923	15 US-10-120-801-53	Sequence 53, Appl
6	15545	100.0	2923	15 US-10-292-798-932	Sequence 932, App
7	15545	100.0	2923	15 US-10-038-854-70	Sequence 70, Appl
8	15518.5	99.8	2956	9 US-09-788-711A-2	Sequence 2, Appli
9	15279	98.3	2936	15 US-10-311-623-9	Sequence 9, Appli
10	14647.5	94.2	2920	15 US-10-038-854-71	Sequence 71, Appl
11	13406	86.2	2560	15 US-10-276-774-1774	Sequence 1774, Ap
12	8974.5	57.7	3034	9 US-10-737-149-25	Sequence 25, Appl
13	8974.5	57.7	3034	9 US-09-737-149-30	Sequence 30, Appl

14	8974.5	57.7	3034	14	US-10-131-409-70	Sequence 70, Appl
15	8974.5	57.7	3034	15	US-10-139-854-70	Sequence 70, Appl
16	8974.5	57.7	3034	15	US-10-120-801-52	Sequence 52, Appl
17	8974.5	57.7	3034	15	US-10-150-813-70	Sequence 70, Appl
18	8974.5	57.7	3034	15	US-10-150-811-70	Sequence 70, Appl
19	8974.5	57.7	3034	15	US-10-701-283-25	Sequence 25, Appl
20	8974.5	57.7	3034	15	US-10-701-283-30	Sequence 30, Appl
21	8754	56.3	3014	9	US-09-737-149-2	Sequence 2, Appli
22	8754	56.3	3014	14	US-10-225-567A-444	Sequence 444, App
23	8754	56.3	3014	14	US-10-241-220-107	Sequence 107, App
24	8754	56.3	3014	14	US-10-174-677-77	Sequence 77, Appl
25	8754	56.3	3014	15	US-10-295-027-750	Sequence 750, App
26	8754	56.3	3014	15	US-10-240-145-63	Sequence 63, Appl
27	8754	56.3	3014	15	US-10-701-283-2	Sequence 2, Appli
28	8709	56.0	3028	14	US-10-131-409-14	Sequence 14, Appl
29	8709	56.0	3028	14	US-10-131-409-69	Sequence 69, Appl
30	8709	56.0	3028	15	US-10-139-854-14	Sequence 14, Appl
31	8709	56.0	3028	15	US-10-139-854-69	Sequence 69, Appl
32	8709	56.0	3028	15	US-10-150-813-14	Sequence 14, Appl
33	8709	56.0	3028	15	US-10-150-813-69	Sequence 69, Appl
34	8709	56.0	3028	15	US-10-150-811-14	Sequence 14, Appl
35	8709	56.0	3028	15	US-10-150-811-69	Sequence 69, Appl
36	7833.5	50.4	3312	14	US-10-225-567A-656	Sequence 656, App
37	7833.5	50.4	3312	15	US-10-038-854-67	Sequence 67, Appl
38	7833.5	50.4	3312	16	US-10-408-765A-1499	Sequence 1499, Ap
39	7816.5	50.3	4115	15	US-10-038-854-4	Sequence 4, Appli
40	7780.5	50.1	3313	9	US-09-737-149-29	Sequence 29, Appl
41	7780.5	50.1	3313	15	US-10-038-854-69	Sequence 69, Appl
42	7780.5	50.1	3313	15	US-10-701-283-29	Sequence 29, Appl
43	7763	49.9	3298	14	US-10-149-819-21	Sequence 21, Appl
44	7732.5	49.7	3301	15	US-10-038-854-68	Sequence 68, Appl
45	4951	31.8	1713	9	US-09-737-149-27	Sequence 27, Appl

ALIGNMENTS

RESULT 1

US-09-788-711A-4
; Sequence 4, Application US/09788711A
; Patent No. US20020058328A1
; GENERAL INFORMATION:
; APPLICANT: Tanla Tamsin Testa
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30225
; CURRENT APPLICATION NUMBER: US/09/788,711A
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 0004196.2
; PRIOR FILING DATE: 2000-02-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
US-09-788-711A-4

Query Match 100.0%; Score 15545; DB 9; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db	61	SASNLWYTSRCRDAAGTGLTGHVPHDGLRWCPSESAHPLPPAPGCPWSCRLGIG	120
Qy	121	GHLSPQKGLTLPEEHPCLKAPRLRCQCKLAQAPGLRAGERSPEESLGRKRNVTAPQ	180
Db	121	GHLSPQKGLTLPEEHPCLKAPRLRCQCKLAQAPGLRAGERSPEESLGRKRNVTAPQ	180

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DB 181 FQPPSYQATVPENQACTVPASLRADPDGEAGRLLEYTMDALFDSGRSNQFPFLSDPVTGA 240
QY 241 VTTAEELDRKTHSVFRVTAQDHGMPRRSALATLITLVTDNDHDPVFEQBYKESLRE 300
DB 241 VTTAEELDRKTHSVFRVTAQDHGMPRRSALATLITLVTDNDHDPVFEQBYKESLRE 300
QY 301 NLEVGYEVLVTRATDGDAPPNANILYRLLEGSGSGSPSEFEIDPRSGVIRTRGPVDREY 360
DB 301 NLEVGYEVLVTRATDGDAPPNANILYRLLEGSGSGSPSEFEIDPRSGVIRTRGPVDREY 360
QY 361 ESYQLTVEASDQGRDPPRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREDVTPGAPVL 420
DB 361 ESYQLTVEASDQGRDPPRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREDVTPGAPVL 420
QY 421 VTASDRDKGSNAVHYISMSGNARGQFYLDQAQTGALDVVSPDYETTKETTLVRQAQDG 480
DB 421 VTASDRDKGSNAVHYISMSGNARGQFYLDQAQTGALDVVSPDYETTKETTLVRQAQDG 480
QY 481 RPPLSNVSGLVTVQVLNDINNAPIFVSTPQATVLESVPLGYLVHVQAIDADAGNARL 540
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DB 541 EYRLAGVGHDPFPFTINGTCGWSVAELDREEDVDFYSGVEARDHGTTPALITASASVTV 600
QY 601 LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRAHSAVITYQITSGNTNRFSITS 660
DB 601 LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRAHSAVITYQITSGNTNRFSITS 660
QY 661 QSGGLVSLALPLDYKLERQVLAVTASDGTROPTAQIVVNVTDANTHRPVFOSSHVTN 720
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DB 721 VNEDRPAGTVLVLSATDEDTGENARITYFMEWSIPQFRIDADTGAVTQAEILDYEDQVS 780
QY 781 YTLAITARDNGIPKSDTTLVLEILVNDVNDNAQFLRDSYQGSVYEDVPFTSVLQISAT 840
DB 781 YTLAITARDNGIPKSDTTLVLEILVNDVNDNAQFLRDSYQGSVYEDVPFTSVLQISAT 840
QY 841 DRDGLNGRVFPTQGGDGDGDFIVESTSGIVRTLRLDRENVQVYLRAVADKGMPP 900
DB 841 DRDGLNGRVFPTQGGDGDGDFIVESTSGIVRTLRLDRENVQVYLRAVADKGMPP 900
QY 901 ARTPMEVTVTVLDVNDNPPVFEQDERDVFVEENSPIGLAVARTATDPDGTNAQIMYQI 960
DB 901 ARTPMEVTVTVLDVNDNPPVFEQDERDVFVEENSPIGLAVARTATDPDGTNAQIMYQI 960
QY 961 VEGNIPVFOQLDIFSGELTALVDLYEDRPEYVLVIAQTSAPLVSRATVHVRLLDRNDP 1020
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DB 1021 PVLGNFEILFNMYNTRNSSFPGGAIGRVPAHDPIISDSITYPFERGNEILSVLLNASTG 1080
QY 1081 ELKLSRALDNNRPLEATMSVLVSDGVHSTVAQCALRTIITDEMLTHSITRLLEDMSPER 1140
DB 1081 ELKLSRALDNNRPLEATMSVLVSDGVHSTVAQCALRTIITDEMLTHSITRLLEDMSPER 1140
QY 1141 FLSPLGLGFIQAVAAATLATPDHVVVFNVDRTDAPGCHILNVSLSVQPPGPGGPPFL 1200
DB 1141 FLSPLGLGFIQAVAAATLATPDHVVVFNVDRTDAPGCHILNVSLSVQPPGPGGPPFL 1200
QY 1201 PSEDLOERLYLNRSLLTAISAQRVLFPDDNICLREPCENTMRCVSVLRFDSAPPTASS 1260
DB 1201 PSEDLOERLYLNRSLLTAISAQRVLFPDDNICLREPCENTMRCVSVLRFDSAPPTASS 1260
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DB 1261 VLFPRPIHPVGLRCRCPPGFTGDI CETEVDLCYSRPGCHRCRSREGGYTCLCRDGYTG 1320
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DB 1741 NITVGGIPGAGGVARGFCLOQVVRVSDTPEGVNSLDPHSGESINVEQCSLDPDCDSN 1800
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DB 1801 PCPANSYCSNDWDVSYSQSDPGYTGDNCTNVCDLNPCHEHOSVCTRKFSAHPGYTCECPNP 1860
QY 1861 YLGPYCEYTRIDQPCPRGMWGHPTCGPCNCDVSKGDFDPCNKTSGECHKENHYRPPGSP 1920
DB 1861 YLGPYCEYTRIDQPCPRGMWGHPTCGPCNCDVSKGDFDPCNKTSGECHKENHYRPPGSP 1920
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DB 1921 CLLCDYPTGSI.SRVCDPEDGQCPKGVICRQCDRCNPPAEVTTNGCEVNYVSCPRAI 1980
QY 1981 EAGIWWPRTFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSIITFSELKGFABRL 2040
DB 1981 EAGIWWPRTFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSIITFSELKGFABRL 2040
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DB 2041 QNBSGLSGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFLSATQ 2100
QY 2101 DVHFTENLLRVGSALLDTANKRHWEILQOTEGGTAWLLQHYEAYASALAQNNRHTYLSPP 2160
DB 2101 DVHFTENLLRVGSALLDTANKRHWEILQOTEGGTAWLLQHYEAYASALAQNNRHTYLSPP 2160
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DB 2161 TTVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPPDLETTVILPESVRETPTPVVRPAG 2220
QY 2221 PGEAEPBELARRQRHPBELSQGEAVASVIIYRTLGLPHNYDPDKRSLRVPKRPINT 2280
DB 2221 PGEAEPBELARRQRHPBELSQGEAVASVIIYRTLGLPHNYDPDKRSLRVPKRPINT 2280
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DB 2281 PWSISVHDDBELPRALDKPVTVQFRLEETEERTKPICVFNNHSILVSGTGGWSARGCE 2340
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Db 2341 VVRNESHVQCNCNMTSFAVLMDVSRRENGEILPLKLTITVVALGVTLAALLLTPFFLTL 2400
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 Db 2401 LRILRSNQHGRNLTAAALGLAQLVFLGGINQADLPFFACTVIAIILLHFLYLCTFSWALLE 2460
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 Db 2461 ALHLYRALTEVRDVTGPMRFYMLGWGPAPFITGLAVGLDPGEGNGPFCWLSIYDTLI 2520
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 Db 2521 WSPAGVAFVMSVFLVILAAASCAAOQGFKEKGPVGLQPSFAVLLLLSATWLLAL 2580
 Qy 2581 LSVNSDTLLFHYLPATNCIOGPFIFLVSIVVLSKEVRKALKACSRKPSDPALTTKSTL 2640
 Db 2581 LSVNSDTLLFHYLPATNCIOGPFIFLVSIVVLSKEVRKALKACSRKPSDPALTTKSTL 2640
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 Db 2641 TSSYNCPSPYADGRLYQYGSAGSLHSTSRGSKQPSYIIFLLREBSALNPGQPPGLG 2700
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 Db 2701 DPGSLFLGQOQOQDHPDTSDSLSDLSLEDDQSGSVASTHSSDSEEEEEEEEAAPGEGQ 2760
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 Db 2761 WDSLPGGAERLPLHSTPKDGGPGKAPWPGDFTTAKESGNGAPERLRENGDALSR 2820
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 Db 2881 RPPRQSLQEQNGVMPIMSIKAGTVDEDSGSEFLFFNFIH 2923

RESULT 2

US-09-916-849A-3
 ; Sequence 3, Application US/09916849A
 ; Publication No. US20030086934A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bostein, et al.
 ; TITLE OF INVENTION: Basal Markers in Breast Cancer and Related Reagents
 ; TITLE OF INVENTION: Uses Thereof
 ; FILE REFERENCE: 2002850-0024
 ; CURRENT APPLICATION NUMBER: US/09/916.849A
 ; CURRENT FILING DATE: 2001-07-26
 ; NUMBER OF SEQ ID NOS: 15
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 3
 ; LENGTH: 2923
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Cadherin BGP
 ; OTHER INFORMATION: LAG Seven Pass G-Type Receptor 2
 US-09-916-849A-3

Query Match 100.0%; Score 15545; DB 10; Length 2923;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 Db 1 MRSPATGVLPPTPPPLLLLLLLLLLLLLPPPLLDGQVGPCKSLGSRGSSGACAPMGWLCPS 60
 Qy 61 SASNLWLTSCRDAGTELTGHLVPHDGLRWCPSEAHILPLPPAPGCPWSCRLLIG 120
 Db 61 SASNLWLTSCRDAGTELTGHLVPHDGLRWCPSEAHILPLPPAPGCPWSCRLLIG 120

Qy 121 CHLSPOQKLTLPBEPHCLKAPRLRCQCKLAQAPGLRAGERSPESSLGRRKRNVTAPQ 180
 Db 121 CHLSPOQKLTLPBEPHCLKAPRLRCQCKLAQAPGLRAGERSPESSLGRRKRNVTAPQ 180
 Qy 181 POPSYQATVPENOPACTPVASLRAIDPDEGEAGRELYTMDALPDSRSNQPFSIDPVTGA 240
 Db 181 POPSYQATVPENOPACTPVASLRAIDPDEGEAGRELYTMDALPDSRSNQPFSIDPVTGA 240
 Qy 241 VTTAEELDRKTSKTHVFRVTAQDHGMPRRSALATITILVTDTNDHDPVFEQOEYKESLRE 300
 Db 241 VTTAEELDRKTSKTHVFRVTAQDHGMPRRSALATITILVTDTNDHDPVFEQOEYKESLRE 300
 Qy 301 NLEVGVEVLTVRATDGDAPPNNANILYLLLEGSGSPSEVFEIDPRSGVIRTRGPVDREB 360
 Db 301 NLEVGVEVLTVRATDGDAPPNNANILYLLLEGSGSPSEVFEIDPRSGVIRTRGPVDREB 360
 Qy 361 ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAPQFSEKRYVVOVREDVTPCAPVL 420
 Db 361 ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAPQFSEKRYVVOVREDVTPCAPVL 420
 Qy 421 VTASDRDKGSNAVHYYSIMSGNARGQFYLDATQTCALDVVSPLDYETTKETTLRVAQDGG 480
 Db 421 VTASDRDKGSNAVHYYSIMSGNARGQFYLDATQTCALDVVSPLDYETTKETTLRVAQDGG 480
 Qy 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPPQATVLESVPLGLVYLHVQAIADADAGNARL 540
 Db 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPPQATVLESVPLGLVYLHVQAIADADAGNARL 540
 Qy 541 EYRLAGVGHDPFTTNGTGWISVAAELDREVDVFSFGVEARDHGTALTASASVTV 600
 Db 541 EYRLAGVGHDPFTTNGTGWISVAAELDREVDVFSFGVEARDHGTALTASASVTV 600
 Qy 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHVSITTYQITSGNTRNRFST 660
 Db 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHVSITTYQITSGNTRNRFST 660
 Qy 661 QSGGLVSLALPLDYKLERQVLAVTASDGTQRTAQIVNVNTANTHRPVFQSSHVTN 720
 Db 661 QSGGLVSLALPLDYKLERQVLAVTASDGTQRTAQIVNVNTANTHRPVFQSSHVTN 720
 Qy 721 VNEDRPAGTVTLISATDEDTGENARITYFMEDSIPOFRIDADTCAVTTQAELEDYEDQVS 780
 Db 721 VNEDRPAGTVTLISATDEDTGENARITYFMEDSIPOFRIDADTCAVTTQAELEDYEDQVS 780
 Qy 781 YTLAITARDNGIPKSDTTLLEILVNDVNDNAPQFLRDSYQSVYEDVPPFTSVLQISAT 840
 Db 781 YTLAITARDNGIPKSDTTLLEILVNDVNDNAPQFLRDSYQSVYEDVPPFTSVLQISAT 840
 Qy 841 DRDSGLNGRVPYTPQGGDGDGDFIVESTSGIVRTLRLDRDRENAQYVLRAYAVDKGMPP 900
 Db 841 DRDSGLNGRVPYTPQGGDGDGDFIVESTSGIVRTLRLDRDRENAQYVLRAYAVDKGMPP 900
 Qy 901 ARTEMEVTVTVLDVNDNPPVFEQDEFVFEENSPIGLAVARVTATDDEGTNAQIMYQI 960
 Db 901 ARTEMEVTVTVLDVNDNPPVFEQDEFVFEENSPIGLAVARVTATDDEGTNAQIMYQI 960
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 Qy 1021 PVLGNFELFNNTNRSSSPGGAIGRVPAHDPDIDSLSLTSYFSGRGNELSLVLLNASTG 1080
 Db 1021 PVLGNFELFNNTNRSSSPGGAIGRVPAHDPDIDSLSLTSYFSGRGNELSLVLLNASTG 1080
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 Qy 1141 FLSPGLGLFTQAAVATLATPDPHVNVNORDDTAPGCHILNVLSVQPPGPGGPPFL 1200
 Db 1141 FLSPGLGLFTQAAVATLATPDPHVNVNORDDTAPGCHILNVLSVQPPGPGGPPFL 1200
 Qy 1201 PSEDQBLRYLNRSLTLTAISAQRVLPFDNDITCLREPCENTMRCVSLRFDSSAPFIASS 1260

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Db 1201 PSEDQLRLYNLSLLTAISAQRVLPFDNNICURBECENMRCVSVLRFDSSAPFIASS 1260
Qy 1261 VLFRLPHVGLRCRCPPGFTGDCYETEDVLCYSRCPGPHRCRSREGGYTCLCRDGYTG 1320
Db 1261 VLFRLPHVGLRCRCPPGFTGDCYETEDVLCYSRCPGPHRCRSREGGYTCLCRDGYTG 1320
Qy 1321 EHEVSARSRCPTGVCKNGGTCVNLVGGFKDCSPGDFPEKPYCQVTRSPAHSFITF 1380
Db 1321 EHEVSARSRCPTGVCKNGGTCVNLVGGFKDCSPGDFPEKPYCQVTRSPAHSFITF 1380
Qy 1381 RGLRQRFHTLALSPATKRDGLLLYNGRNEKXDFVLEVEIQVQLTFSAGESSTTVS 1440
Db 1381 RGLRQRFHTLALSPATKRDGLLLYNGRNEKXDFVLEVEIQVQLTFSAGESSTTVS 1440
Qy 1441 PFVPGVSDGQWHTVQLKYNNKLLGQTLPGQPSBQKVAVTVDCDGTGVALRFGSVLG 1500
Db 1441 PFVPGVSDGQWHTVQLKYNNKLLGQTLPGQPSBQKVAVTVDCDGTGVALRFGSVLG 1500
Qy 1501 NYSAAOGTGGSKSLDLTGPIILGGVPLDPSFPVRMQFVGCWNRNLOVDSRHIDMAD 1560
Db 1501 NYSAAOGTGGSKSLDLTGPIILGGVPLDPSFPVRMQFVGCWNRNLOVDSRHIDMAD 1560
Qy 1561 FIANNGTVPCKPAKONVCDNNTCHNGTGVNQWDAFSCCEPLGFGKSCAQAEMANPOHFL 1620
Db 1561 FIANNGTVPCKPAKONVCDNNTCHNGTGVNQWDAFSCCEPLGFGKSCAQAEMANPOHFL 1620
Qy 1621 GSSIVAMHGLSLPISQWYLSLMFRTRQADGVLLQAITRGRSTITLQLREGHVMSVEGT 1680
Db 1621 GSSIVAMHGLSLPISQWYLSLMFRTRQADGVLLQAITRGRSTITLQLREGHVMSVEGT 1680
Qy 1681 GLQASSLRLEPGRANDGWHQAOLAGSGGPGHAILSPDYGOORAEGLNLPRLHGLHS 1740
Db 1681 GLQASSLRLEPGRANDGWHQAOLAGSGGPGHAILSPDYGOORAEGLNLPRLHGLHS 1740
Qy 1741 NITVGGIPGAGVGARFCRCLAGVRVSDTPEGVNSLDPSHGSESINVEQCSLDPDCSN 1800
Db 1741 NITVGGIPGAGVGARFCRCLAGVRVSDTPEGVNSLDPSHGSESINVEQCSLDPDCSN 1800
Qy 1801 PCPANSYCSNDWDSYSCSDPGYGGDNCTNVCDLNPCEHQSVCVTRKPSAPHGYTCECPN 1860
Db 1801 PCPANSYCSNDWDSYSCSDPGYGGDNCTNVCDLNPCEHQSVCVTRKPSAPHGYTCECPN 1860
Qy 1861 YLGPYCETRIDQPCPRGWGHPTGCPNCNDVSKGPDPCNKTSGECHKENHYRPPGSPT 1920
Db 1861 YLGPYCETRIDQPCPRGWGHPTGCPNCNDVSKGPDPCNKTSGECHKENHYRPPGSPT 1920
Qy 1921 CLLCDDYPTGSLRVCDPEDGQCPKPGVIGROCDNCPFAEVTNGCEVNDSCPRAI 1980
Db 1921 CLLCDDYPTGSLRVCDPEDGQCPKPGVIGROCDNCPFAEVTNGCEVNDSCPRAI 1980
Qy 1981 EAGIWWPRTRFGLPAAAPCKPSFGTAVRHCDHRGWLPNLNFCTSIITFSELKGFABL 2040
Db 1981 EAGIWWPRTRFGLPAAAPCKPSFGTAVRHCDHRGWLPNLNFCTSIITFSELKGFABL 2040
Qy 2041 QRNESGLDSRSQLALLRNATQHTAGYGSVDVKAQYQATRLLAHSTORGFGLSATQ 2100
Db 2041 QRNESGLDSRSQLALLRNATQHTAGYGSVDVKAQYQATRLLAHSTORGFGLSATQ 2100
Qy 2101 DVHFTENLRVGSALLDTANKRWELIQOTEGGTAWLLQHYEAYASALAQNMHTYLSPP 2160
Db 2101 DVHFTENLRVGSALLDTANKRWELIQOTEGGTAWLLQHYEAYASALAQNMHTYLSPP 2160
Qy 2161 TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGESQPPDLETTVILPESVFRETTPVVRPAG 2220
Db 2161 TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGESQPPDLETTVILPESVFRETTPVVRPAG 2220
Qy 2221 PGEAQEPFELARRQRHPELSQGBAVASVIIYRTLGLLPHNDPDKRSRVRPKRIINT 2280
Db 2221 PGEAQEPFELARRQRHPELSQGBAVASVIIYRTLGLLPHNDPDKRSRVRPKRIINT 2280
Qy 2281 PVVSIHVHDDLELLPRALDKPVTVPRLLEETERTKPICVFMNHSILVSGTGCWSARGCE 2340

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Db 2281 PVVSIHVHDDLELLPRALDKPVTVPRLLEETERTKPICVFMNHSILVSGTGCWSARGCE 2340
Qy 2341 VVFNESHVSCQNMHTSPFAVLMDVSRRENGEILPLKTLTYVALGVTLAALLITFFFLTL 2400
Db 2341 VVFNESHVSCQNMHTSPFAVLMDVSRRENGEILPLKTLTYVALGVTLAALLITFFFLTL 2400
Qy 2401 LRIILRSQHGIIRNLTAALGLAQLVFLLLGINOADLPACTVIAILLHFLYLCYFWSWALLE 2460
Db 2401 LRIILRSQHGIIRNLTAALGLAQLVFLLLGINOADLPACTVIAILLHFLYLCYFWSWALLE 2460
Qy 2461 ALHLYRALTEVRDVTNTGMRFTYMLGVPAPFITGLAVGLDPEGYGNDPCWLSIYDTLI 2520
Db 2461 ALHLYRALTEVRDVTNTGMRFTYMLGVPAPFITGLAVGLDPEGYGNDPCWLSIYDTLI 2520
Qy 2521 WSPAGPVAFVMSVFLYIILAAASCAAOQKQKPGVSGLOPSFAVILLLSATWILLAL 2580
Db 2521 WSPAGPVAFVMSVFLYIILAAASCAAOQKQKPGVSGLOPSFAVILLLSATWILLAL 2580
Qy 2581 LSVNSDTLLPHYLATCNCIQGPPIFLSYVVLSEVKRALKACSRKPSDPPALTTKSTL 2640
Db 2581 LSVNSDTLLPHYLATCNCIQGPPIFLSYVVLSEVKRALKACSRKPSDPPALTTKSTL 2640
Qy 2641 TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPFLLREESALNPQGGPGLG 2700
Db 2641 TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPFLLREESALNPQGGPGLG 2700
Qy 2701 DPGSLFLEGQDQDHPDSDSDLSLEDDQSGSVASTHSSDSSEEEEEEEAAPPGEQ 2760
Db 2701 DPGSLFLEGQDQDHPDSDSDLSLEDDQSGSVASTHSSDSSEEEEEEEAAPPGEQ 2760
Qy 2761 WDSLGLGCAERLPHSTPKDGGPGPKAPWPGDPTTAKESSNGAPPEERLRENGDALSR 2820
Db 2761 WDSLGLGCAERLPHSTPKDGGPGPKAPWPGDPTTAKESSNGAPPEERLRENGDALSR 2820
Qy 2821 EGSGLPLPGSSAQPHKGLKKKCLPTISEKSLRLPLEQCTGSSRGSSASESGRGGPPP 2880
Db 2821 EGSGLPLPGSSAQPHKGLKKKCLPTISEKSLRLPLEQCTGSSRGSSASESGRGGPPP 2880
Qy 2881 RPPPRQSLQEQINGVMPMIAMSIKAGTVDESDSSGSEFLFFNFLH 2923
Db 2881 RPPPRQSLQEQINGVMPMIAMSIKAGTVDESDSSGSEFLFFNFLH 2923

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RESULT 3
US-10-225-567A-524
; Sequence 524, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: LifeSpan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burmer, Glenn C.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; CURRENT FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 524
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-524

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Query Match 100.0%; Score 15545; DB 14; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRSPATGVPLTPPPPLLLLLLLLLLLLLPPPLLDQGVQPCRSLSGRSGSGACAPMGWLCPS 60
Db 1 MRSPATGVPLTPPPPLLLLLLLLLLLLLPPPLLDQGVQPCRSLSGRSGSGACAPMGWLCPS 60

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QY 61 SASNLWLYTSRCDAGTBLTGHLPVHHDLRWCPSESAHILPAPBPGCPWSCRLLGIG 120
Db 61 SASNLWLYTSRCDAGTBLTGHLPVHHDLRWCPSESAHILPAPBPGCPWSCRLLGIG 120
QY 121 GHLSPQGLTLPEEHPCLKAPRLRCOSCKLAQAPGLRAGERSPBESLGRKRNVNTAPQ 180
Db 121 GHLSPQGLTLPEEHPCLKAPRLRCOSCKLAQAPGLRAGERSPBESLGRKRNVNTAPQ 180
QY 181 FOPPSYQATVPENOPAGTFVASLRAIDPDEGEAGRELYTMDALFDSRSNQFFSLDPVTGA 240
Db 181 FOPPSYQATVPENOPAGTFVASLRAIDPDEGEAGRELYTMDALFDSRSNQFFSLDPVTGA 240
QY 241 VTTAEELDRETKSTHVPVTAQDHGMPRRSALATLTILVTNDHDPVPEOEYKESLRE 300
Db 241 VTTAEELDRETKSTHVPVTAQDHGMPRRSALATLTILVTNDHDPVPEOEYKESLRE 300
QY 301 NLEVGYEVLTVRATDGDAPPANILYRLLEGSGSPSEVFIEDPRSGVIRTRGPVDREEV 360
Db 301 NLEVGYEVLTVRATDGDAPPANILYRLLEGSGSPSEVFIEDPRSGVIRTRGPVDREEV 360
QY 361 ESYQLTVASDQGRDPGRSTTAAVFLSVEDDNDNAPOFSEKRYVVOVREDVTFGAPVLR 420
Db 361 ESYQLTVASDQGRDPGRSTTAAVFLSVEDDNDNAPOFSEKRYVVOVREDVTFGAPVLR 420
QY 421 VTASDRDKGSNAVHYSTMSGNARGQFYLDATGALDVVSPLDYETTKYETLVRADQGG 480
Db 421 VTASDRDKGSNAVHYSTMSGNARGQFYLDATGALDVVSPLDYETTKYETLVRADQGG 480
QY 481 RPPILSNVSGLVTVQVLDINDNAPFVSTPFOATVLESVPLGLVLHVQAIADADAGDNARL 540
Db 481 RPPILSNVSGLVTVQVLDINDNAPFVSTPFOATVLESVPLGLVLHVQAIADADAGDNARL 540
QY 541 EYRLAGVGHDPFFITNNGTGMISVAAELDRDEVDYFSGVEARDHGTGTPAL TASASVTV 600
Db 541 EYRLAGVGHDPFFITNNGTGMISVAAELDRDEVDYFSGVEARDHGTGTPAL TASASVTV 600
QY 601 LDVNDNPTFQPEYTVRLNDEDAVGTSVTVSAVDRDAHSVITVQITSGNTRNRFISITS 660
Db 601 LDVNDNPTFQPEYTVRLNDEDAVGTSVTVSAVDRDAHSVITVQITSGNTRNRFISITS 660
QY 661 QSGGLVSLALPLDYKLERQVYLAVTASDGTRODTAQILVNVNTDANTHRPVFQSSHVTN 720
Db 661 QSGGLVSLALPLDYKLERQVYLAVTASDGTRODTAQILVNVNTDANTHRPVFQSSHVTN 720
QY 721 VNEDRPAGTIVVLISATDEDIGENARITYFMEDSIPQFRIDADTGAVTQAELEDYEDQVS 780
Db 721 VNEDRPAGTIVVLISATDEDIGENARITYFMEDSIPQFRIDADTGAVTQAELEDYEDQVS 780
QY 781 YTLAITARDNGIPQKSDTYYLEILVNDVNDNAPOFLRDSYQGSVVEDVPPFTSVLQISAT 840
Db 781 YTLAITARDNGIPQKSDTYYLEILVNDVNDNAPOFLRDSYQGSVVEDVPPFTSVLQISAT 840
QY 841 DRDSGLAGRVFTFQGGDGDGDFVSTSGIVRTLRELDRENAQYVLRAYAVDKGMP 900
Db 841 DRDSGLAGRVFTFQGGDGDGDFVSTSGIVRTLRELDRENAQYVLRAYAVDKGMP 900
QY 901 ARTPMEVTVTVLVDNDNPVPEQEDFVFEZNSPIGLAVARVATDPDEGTNAQIMYQI 960
Db 901 ARTPMEVTVTVLVDNDNPVPEQEDFVFEZNSPIGLAVARVATDPDEGTNAQIMYQI 960
QY 961 VEGNIPEVQOLDIFSGELTALVDLYEDRPEYLVIOATSAPLVSRTAVHVRLLDNDNP 1020
Db 961 VEGNIPEVQOLDIFSGELTALVDLYEDRPEYLVIOATSAPLVSRTAVHVRLLDNDNP 1020
QY 1021 PVLGNFEILFNNTVTRNSSPPGGAIGRVPADHDDISDSLYTSFERGNELSLVLLNASTG 1080
Db 1021 PVLGNFEILFNNTVTRNSSPPGGAIGRVPADHDDISDSLYTSFERGNELSLVLLNASTG 1080
QY 1081 ELKLSRALDNNRPLEAIMSVLSDGVHSTVQACALRVITIIDEMLTHTITIRLEDMSPER 1140
Db 1081 ELKLSRALDNNRPLEAIMSVLSDGVHSTVQACALRVITIIDEMLTHTITIRLEDMSPER 1140

QY 1141 FLSPLILGLFTQAAVATLATPPDHVVFNVOBQTDAPGCHILNVLSVQPPGPGGPPFL 1200
Db 1141 FLSPLILGLFTQAAVATLATPPDHVVFNVOBQTDAPGCHILNVLSVQPPGPGGPPFL 1200
QY 1201 PSEDLQERLYLNRSLLTALISAQRLVLPDDNITCLREPCENYMRCSVLRFDSSAPFIASSS 1260
Db 1201 PSEDLQERLYLNRSLLTALISAQRLVLPDDNITCLREPCENYMRCSVLRFDSSAPFIASSS 1260
QY 1261 VLFPRIPHPVGLRCRCPPGFTGDCETEVDLICYSRPPGPHORCRSREGGYTCLCRDGYTG 1320
Db 1261 VLFPRIPHPVGLRCRCPPGFTGDCETEVDLICYSRPPGPHORCRSREGGYTCLCRDGYTG 1320
QY 1321 EHCVSARSRCRTPGVCKNGGTCVNLVGVGFKDCPSGDREKPYCQVTRTFPPAHSFITY 1380
Db 1321 EHCVSARSRCRTPGVCKNGGTCVNLVGVGFKDCPSGDREKPYCQVTRTFPPAHSFITY 1380
QY 1381 RGLRQRFHTLTALSFAATKERDGLLYNGRFNEKHDVFALEVIQBVQLTFBSAGESITTVS 1440
Db 1381 RGLRQRFHTLTALSFAATKERDGLLYNGRFNEKHDVFALEVIQBVQLTFBSAGESITTVS 1440
QY 1441 PFVPGVSDGOWHTVQLKYNNKPLLGOTGLPQGPSEQKVAVTVVDGCDTGVALRPGSVLG 1500
Db 1441 PFVPGVSDGOWHTVQLKYNNKPLLGOTGLPQGPSEQKVAVTVVDGCDTGVALRPGSVLG 1500
QY 1501 NYSCAAQGTGGSKSLDLTGPIILGGVPDLPESPFVPMRQFVGCNRNLQVDSRHIDMAD 1560
Db 1501 NYSCAAQGTGGSKSLDLTGPIILGGVPDLPESPFVPMRQFVGCNRNLQVDSRHIDMAD 1560
QY 1561 FIANNGTVPGPAPKKNVCDNNTCHNGGTCVNWDAFSCCEPLGFGGKSCAQBEMANPOHFL 1620
Db 1561 FIANNGTVPGPAPKKNVCDNNTCHNGGTCVNWDAFSCCEPLGFGGKSCAQBEMANPOHFL 1620
QY 1621 GSSLVAMHGLSLPISQPMWYLSLMFRTQADGVLLQAITRGRSTITTLQREGHVMSVSGT 1680
Db 1621 GSSLVAMHGLSLPISQPMWYLSLMFRTQADGVLLQAITRGRSTITTLQREGHVMSVSGT 1680
QY 1681 GLQASSLRLEPGRANDGWHHAQIALGASGPGHAILSFYDYGQORAEAGNLGRLHGLHS 1740
Db 1681 GLQASSLRLEPGRANDGWHHAQIALGASGPGHAILSFYDYGQORAEAGNLGRLHGLHS 1740
QY 1741 NITVGGIPGAGGVARGFRCGLQGVYRSDTPEGVNSLDPHSGESINVEQGSCLPDPDUSN 1800
Db 1741 NITVGGIPGAGGVARGFRCGLQGVYRSDTPEGVNSLDPHSGESINVEQGSCLPDPDUSN 1800
QY 1801 PCPANSYCSNDWDSYSCSDPGYIGDNTVCDLNPCEHQSVCTRKPSAPHGYTCECPN 1860
Db 1801 PCPANSYCSNDWDSYSCSDPGYIGDNTVCDLNPCEHQSVCTRKPSAPHGYTCECPN 1860
QY 1861 YLGPYCETRIDQPCPRGWGHPTGCPNCVSKGFPDPCNKTSGECHCKENHYRPPGSPT 1920
Db 1861 YLGPYCETRIDQPCPRGWGHPTGCPNCVSKGFPDPCNKTSGECHCKENHYRPPGSPT 1920
QY 1921 CLLCDYPTGSLSVCDPEDGQCPKPGVIGRQCDRCNDPFAEVTTCVNVYDSCPRAI 1980
Db 1921 CLLCDYPTGSLSVCDPEDGQCPKPGVIGRQCDRCNDPFAEVTTCVNVYDSCPRAI 1980
QY 1981 EAGIWWPRTFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSTTFSELKGFABRL 2040
Db 1981 EAGIWWPRTFGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSTTFSELKGFABRL 2040
QY 2041 QRNESGLDSRGSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFLSATQ 2100
Db 2041 QRNESGLDSRGSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTORGFLSATQ 2100
QY 2101 DVHFTENLLRVGSALLDTANKRWELIQTQEGGTAWLLQHYEAVASALQANRHTYLSPP 2160
Db 2101 DVHFTENLLRVGSALLDTANKRWELIQTQEGGTAWLLQHYEAVASALQANRHTYLSPP 2160
QY 2161 TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPPDLETTVILPESVFRETTPVVRPAG 2220
Db 2161 TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPPDLETTVILPESVFRETTPVVRPAG 2220
QY 2221 PGEAQSPPEELARRQRHPELSQGEBAVSVIITRTLAGLLPHNYDPDKSLRVPKRPPIINT 2280

Db	2221	PGEAQPEELARQRRHPELSGCEAVSVIIYRTLAGLPHNYDPRKSLRVPKPIINT	2280
Qy	2281	PVVSISVHDDDEELLPRALDKPVTQVRLLETERTKPICVFNWHSILVSGTCGWSARGCE	2340
Db	2281	PVVSISVHDDDEELLPRALDKPVTQVRLLETERTKPICVFNWHSILVSGTCGWSARGCE	2340
Qy	2341	VVFRNESHVSCQCNHMTSPAVLMDVSRRENGETILPKLTIYVALGYVTLAALLTTFEFLTL	2400
Db	2341	VVFRNESHVSCQCNHMTSPAVLMDVSRRENGETILPKLTIYVALGYVTLAALLTTFEFLTL	2400
Qy	2401	LRILRSNQHGIIRNLTAALGLAQLVFLGLINQADLPFACTVIAILLHFLYLCTFSWALLE	2460
Db	2401	LRILRSNQHGIIRNLTAALGLAQLVFLGLINQADLPFACTVIAILLHFLYLCTFSWALLE	2460
Qy	2461	ALHLYRALTEVRDVTGPMRFYMLGWGVPAPFTGLAVGLDPGEGYGNPDFCWLISIYDTLI	2520
Db	2461	ALHLYRALTEVRDVTGPMRFYMLGWGVPAPFTGLAVGLDPGEGYGNPDFCWLISIYDTLI	2520
Qy	2521	WSFAGPVAVASVSVFLYIILAAASCAAOQGEKKGPVSGLOQSPAVILLLSATWLLAL	2580
Db	2521	WSFAGPVAVASVSVFLYIILAAASCAAOQGEKKGPVSGLOQSPAVILLLSATWLLAL	2580
Qy	2581	LSVNSDTLLPHYLFAICNCIQGPFIFLSYVVLKSKEVRKALKACSRKPSDPALTKSTL	2640
Db	2581	LSVNSDTLLPHYLFAICNCIQGPFIFLSYVVLKSKEVRKALKACSRKPSDPALTKSTL	2640
Qy	2641	TSSVNCPSVADGRQLQPYGDSAGSLHSTRSRGKSQPSYIPFLLRBSALNPGQPPGLG	2700
Db	2641	TSSVNCPSVADGRQLQPYGDSAGSLHSTRSRGKSQPSYIPFLLRBSALNPGQPPGLG	2700
Qy	2701	DPGSLFLEGQOQOHDPTDSLSLEDDQSGSYASTHSDSEEEEEERAAAPGEG	2760
Db	2701	DPGSLFLEGQOQOHDPTDSLSLEDDQSGSYASTHSDSEEEEEERAAAPGEG	2760
Qy	2761	WDSILGFGBERLPLHSTPKDGGPGPKAPWPGDFTGTAKESGNGGAPEERLRENGDALSR	2820
Db	2761	WDSILGFGBERLPLHSTPKDGGPGPKAPWPGDFTGTAKESGNGGAPEERLRENGDALSR	2820
Qy	2821	EGSLGPLPGSAQPHKILKKCLPTISEKSSILLRLPLBOCTGSSRGSSASGSGRGPPPP	2880
Db	2821	EGSLGPLPGSAQPHKILKKCLPTISEKSSILLRLPLBOCTGSSRGSSASGSGRGPPPP	2880
Qy	2881	RPPRQSLQELQNGVMPAIAMSIKAGTVDEDSGSEFLFNFLH	2923
Db	2881	RPPRQSLQELQNGVMPAIAMSIKAGTVDEDSGSEFLFNFLH	2923

RESULT 4
US-10-174-677-29
; Sequence 29, Application US/10174677
; Publication No. US20030190704A1
; GENERAL INFORMATION:
; APPLICANT: Xie, Ting
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANCHORING STEM CELLS IN A MICROENVIR
; FILE REFERENCE: 40716 (IP-012)
; CURRENT APPLICATION NUMBER: US/10/174,677
; CURRENT FILING DATE: 2002-06-19
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-174-677-29

Query Match 100.0%; Score 15545; DB 14; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MRSPATGVLPPTPPPLLLLLLLLLPPPLLDQGVGCRSLGSRGSSGACAPMGWLCPS	60
Db	1	MRSPATGVLPPTPPPLLLLLLLLLPPPLLDQGVGCRSLGSRGSSGACAPMGWLCPS	60

Qy	61	SASNLWLTYSRCRDAGTGLHLPVHDGLRVMCPSEAHIPLPAPGEGCPWSCRLIGIG	120
Db	61	SASNLWLTYSRCRDAGTGLHLPVHDGLRVMCPSEAHIPLPAPGEGCPWSCRLIGIG	120
Qy	121	GHLSPQCKLTLPEBHPCLKAPRLRCQSKLAQAPGLRAGERSPEESLGGRRKKNVNTAPQ	180
Db	121	GHLSPQCKLTLPEBHPCLKAPRLRCQSKLAQAPGLRAGERSPEESLGGRRKKNVNTAPQ	180
Qy	181	FQPSYQATVPENQAGTTPVASIRADPDDEGEAGRELYTMDALFDSRSNOFFSILDPVTGA	240
Db	181	FQPSYQATVPENQAGTTPVASIRADPDDEGEAGRELYTMDALFDSRSNOFFSILDPVTGA	240
Qy	241	VTTAEELDRRETKSTHVRVTAQDHGMPRRSALATLTLVLTDTNDHDVVFQEQYKESLRE	300
Db	241	VTTAEELDRRETKSTHVRVTAQDHGMPRRSALATLTLVLTDTNDHDVVFQEQYKESLRE	300
Qy	301	NLEVGVEVLTVRATDGDAPPNNANILYRLLEGSGSGSPSEVFEIDPRSGVIRTRGPDREEV	360
Db	301	NLEVGVEVLTVRATDGDAPPNNANILYRLLEGSGSGSPSEVFEIDPRSGVIRTRGPDREEV	360
Qy	361	ESYQLTVEASDQGRDPCPRSTTAAPFLSVEDDNDNAPQFSEKRYVVOVREDVTPGAPVLR	420
Db	361	ESYQLTVEASDQGRDPCPRSTTAAPFLSVEDDNDNAPQFSEKRYVVOVREDVTPGAPVLR	420
Qy	421	VTASDRDKGSNAVHYHYSIMSGNARGQFYLDATQTCALDOWSPLDYETTKETLVRADQGG	480
Db	421	VTASDRDKGSNAVHYHYSIMSGNARGQFYLDATQTCALDOWSPLDYETTKETLVRADQGG	480
Qy	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLYLVLHVQADADAGDNARL	540
Db	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLYLVLHVQADADAGDNARL	540
Qy	541	EYRLAGVGHDPPTINNGTGWISVAAELDREEDVDFYSGVEARDHGTPALTASASVTV	600
Db	541	EYRLAGVGHDPPTINNGTGWISVAAELDREEDVDFYSGVEARDHGTPALTASASVTV	600
Qy	601	LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGTNRNRSITS	660
Db	601	LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGTNRNRSITS	660
Qy	661	QSGGGLVSLALPLDYKLERQYVLAVTASDGTRODTAQIIVNVTDANTHRPVFQSSHVTN	720
Db	661	QSGGGLVSLALPLDYKLERQYVLAVTASDGTRODTAQIIVNVTDANTHRPVFQSSHVTN	720
Qy	721	VNEDRPAGTTVVLISATDEDTGENARITYPMEDSIPOFRIDADTGATVTOAELDYEDQVS	780
Db	721	VNEDRPAGTTVVLISATDEDTGENARITYPMEDSIPOFRIDADTGATVTOAELDYEDQVS	780
Qy	781	YTLAITARDNGIPKSDTTTLEILLVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISAT	840
Db	781	YTLAITARDNGIPKSDTTTLEILLVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISAT	840
Qy	841	DRDSGLNGRVFTYFGGDDGDDFIVESTSGIVTTLRLRDRENVQAVYLRAYAVDKMPP	900
Db	841	DRDSGLNGRVFTYFGGDDGDDFIVESTSGIVTTLRLRDRENVQAVYLRAYAVDKMPP	900
Qy	901	ARTPMEVTVTVLDVNDNPPVPSQDEDFVFEENSPIGLAVARVATATPDDEGTNAQIMYQI	960
Db	901	ARTPMEVTVTVLDVNDNPPVPSQDEDFVFEENSPIGLAVARVATATPDDEGTNAQIMYQI	960
Qy	961	VEGNIPEVFOQDIFSGELTALVDLDYEDRPREYVLVIQATSAPLVSRATVHVLRLDRNDP	1020
Db	961	VEGNIPEVFOQDIFSGELTALVDLDYEDRPREYVLVIQATSAPLVSRATVHVLRLDRNDP	1020
Qy	1021	PVLGNFEILFNNTNRSSSPFGGAIGKRVPAHDPIIDSLSITYSPERGNEISLVLLNASTG	1080
Db	1021	PVLGNFEILFNNTNRSSSPFGGAIGKRVPAHDPIIDSLSITYSPERGNEISLVLLNASTG	1080
Qy	1081	ELKLSRALDNNRPLEAMSVLSDGVHSTVTAQCALRVTIITDEMLTSHITLRLDMDSPER	1140
Db	1081	ELKLSRALDNNRPLEAMSVLSDGVHSTVTAQCALRVTIITDEMLTSHITLRLDMDSPER	1140

1141 QY FLSPLLLGLPIQAVATLATPBDHVNVNVVORDTDAPGGHILNVLSVQCPGCGGPPFL 1200
1141 Db FLSPLLLGLPIQAVATLATPBDHVNVNVVORDTDAPGGHILNVLSVQCPGCGGPPFL 1200
1201 QY PSEDLQERLYNRSLLTATSAQRVLPPDDNICLREPCENYMRCSVLFDFSSAPFIASSS 1260
1201 Db PSEDLQERLYNRSLLTATSAQRVLPPDDNICLREPCENYMRCSVLFDFSSAPFIASSS 1260
1261 QY VLFPRPIHPVGLRCRCPPGFTGDIYCEVTEVDLCYSRPGPHGRCSRREGGYTCLCRDGYTG 1320
1261 Db VLFPRPIHPVGLRCRCRCPPGFTGDIYCEVTEVDLCYSRPGPHGRCSRREGGYTCLCRDGYTG 1320
1321 QY EHCVEARSRGCTPGVCNKGCTCVNLLVGGFKDCPSGDFEKPVCQVTRFPPAHSRITTF 1380
1321 Db EHCVEARSRGCTPGVCNKGCTCVNLLVGGFKDCPSGDFEKPVCQVTRFPPAHSRITTF 1380
1381 QY RGLRQRFHTLLALSFATKERDGLLLYNGRFNEKHDFVALEVIQEQVLTFFSAGESSTTVS 1440
1381 Db RGLRQRFHTLLALSFATKERDGLLLYNGRFNEKHDFVALEVIQEQVLTFFSAGESSTTVS 1440
1441 QY PFVPGGVSDGQWHTVQLKYNKPLLGQTLGPGSPBQKVAWVVDGCTGVALLRFGSVLG 1500
1441 Db PFVPGGVSDGQWHTVQLKYNKPLLGQTLGPGSPBQKVAWVVDGCTGVALLRFGSVLG 1500
1501 QY NYSCAAQGTQGSKSLDLTGPLLLGGVDPDLPESPFVPMRQFVGCNRLQVDSRHDIMAD 1560
1501 Db NYSCAAQGTQGSKSLDLTGPLLLGGVDPDLPESPFVPMRQFVGCNRLQVDSRHDIMAD 1560
1561 QY FIANNGTVPGPCAKNVCDSTCHNGGTCVNQWDAFSCCEPLGFGKSCAQMANNPOHFL 1620
1561 Db FIANNGTVPGPCAKNVCDSTCHNGGTCVNQWDAFSCCEPLGFGKSCAQMANNPOHFL 1620
1621 QY GSSLVAMHGLSLPISQPYLSMFRTRQADGVLLQAITRGRSTITTLQLRBGHVMLSVBGT 1680
1621 Db GSSLVAMHGLSLPISQPYLSMFRTRQADGVLLQAITRGRSTITTLQLRBGHVMLSVBGT 1680
1681 QY GLQASSLRLEPRANDGDWHHAQALGASGPGHAILSFQYQOQRAEGNLGRLHGLHLS 1740
1681 Db GLQASSLRLEPRANDGDWHHAQALGASGPGHAILSFQYQOQRAEGNLGRLHGLHLS 1740
1741 QY NITVGGTIPGAGVARGPGLCQVVRVSDTPEGVNSLDPHGESINVEQGCSPDPCDSN 1800
1741 Db NITVGGTIPGAGVARGPGLCQVVRVSDTPEGVNSLDPHGESINVEQGCSPDPCDSN 1800
1801 QY PCPANSYCSNDWDSYSCSDPGYTGDNCTVCDLNPCEHQSVCTRKPSAPHGYTCECPPN 1860
1801 Db PCPANSYCSNDWDSYSCSDPGYTGDNCTVCDLNPCEHQSVCTRKPSAPHGYTCECPPN 1860
1861 QY YLGPYCETRIDQPCRGWGHPTGCPNCVDYSGFDPDCNKTSGECHCKENHYRPPGSP 1920
1861 Db YLGPYCETRIDQPCRGWGHPTGCPNCVDYSGFDPDCNKTSGECHCKENHYRPPGSP 1920
1921 QY CLLCDCYPTGSLSRVCDPDCQCKPGVIGRQCDRCNPPAEVTTNGCEVNYDSCPRAI 1980
1921 Db CLLCDCYPTGSLSRVCDPDCQCKPGVIGRQCDRCNPPAEVTTNGCEVNYDSCPRAI 1980
1981 QY EAGIWMPTREGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSTTFSELKGFARL 2040
1981 Db EAGIWMPTREGLPAAAPCPKGSFGTAVRHCDHRGMLPPNLFNCTSTTFSELKGFARL 2040
2041 QY QRNESGLDSGRSQOALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFLSATQ 2100
2041 Db QRNESGLDSGRSQOALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFLSATQ 2100
2101 QY DVHETENLRVGSALLDTANKRHVELLOOTEGGTAWLLQHYEAYASALQNMRTYLSPP 2160
2101 Db DVHETENLRVGSALLDTANKRHVELLOOTEGGTAWLLQHYEAYASALQNMRTYLSPP 2160
2161 QY TIVTPNIVISVRLDKGNFAGAKLPRYEALRGEOPPDLETTVILPESVFRETTPVVRPAG 2220
2161 Db TIVTPNIVISVRLDKGNFAGAKLPRYEALRGEOPPDLETTVILPESVFRETTPVVRPAG 2220
2221 QY PGEAQEPEELARRORRHPELSQGEAVASVIIYRTLGLLLPHNYDPDKRSRVPKRPINT 2280

2221 Db PGEAQEPEELARRORRHPELSQGEAVASVIIYRTLGLLLPHNYDPDKRSRVPKRPINT 2280
2281 QY PVVSGISVHDDDELLPRALDKFVTVQFRLLLETEERTKPCVFNWHSILVSGTGGWSARGCE 2340
2281 Db PVVSGISVHDDDELLPRALDKFVTVQFRLLLETEERTKPCVFNWHSILVSGTGGWSARGCE 2340
2341 QY VVFNESHVSQCQNHMTSFAVLMVDSRRENGEIIPLKLTLYVALGVTLAALLTFFFTL 2400
2341 Db VVFNESHVSQCQNHMTSFAVLMVDSRRENGEIIPLKLTLYVALGVTLAALLTFFFTL 2400
2401 QY LRIILRSQHGIRRNLTAAQLAQLVFLGQINQADLPRACTVIAILLHLYLCTFSWALLE 2460
2401 Db LRIILRSQHGIRRNLTAAQLAQLVFLGQINQADLPRACTVIAILLHLYLCTFSWALLE 2460
2461 QY ALHLRYALTEVRDVTNTGPMRFYMLGMGVPAFIITGLAVGLDPGEGYGNPDFCWLSIYDTLI 2520
2461 Db ALHLRYALTEVRDVTNTGPMRFYMLGMGVPAFIITGLAVGLDPGEGYGNPDFCWLSIYDTLI 2520
2521 QY WSPFAGPVAFVMSVFLYILAARASCAAQORGFEKKGPVSGLOPSFAVLLLLSATWLLAL 2580
2521 Db WSPFAGPVAFVMSVFLYILAARASCAAQORGFEKKGPVSGLOPSFAVLLLLSATWLLAL 2580
2581 QY LSVNSDTLLPHYLFCATCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPALTTKSTL 2640
2581 Db LSVNSDTLLPHYLFCATCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPALTTKSTL 2640
2641 QY TSSYNCSPYADGRLYOPYGDSAGSLHSTSRGSKSQSYIIPFLREESALNPGQPPGLG 2700
2641 Db TSSYNCSPYADGRLYOPYGDSAGSLHSTSRGSKSQSYIIPFLREESALNPGQPPGLG 2700
2701 QY DPGSLFLEGQDQDHPDSDSDLSLEDDQGSVASTHSSSESESESESESESESESESE 2760
2701 Db DPGSLFLEGQDQDHPDSDSDLSLEDDQGSVASTHSSSESESESESESESESESESE 2760
2761 QY WDSLGLGABRLPLHSTPKDGGPGKAPWPGDGTGTAKSSGNGAPERLRENGDALSR 2820
2761 Db WDSLGLGABRLPLHSTPKDGGPGKAPWPGDGTGTAKSSGNGAPERLRENGDALSR 2820
2821 QY EGSGLPLPGSSAOPHKGILKKCLPTISEKSSLLRLLPLEQCTGSSRGSSESESESESESE 2880
2821 Db EGSGLPLPGSSAOPHKGILKKCLPTISEKSSLLRLLPLEQCTGSSRGSSESESESESESE 2880
2881 QY RPPRQSLQELQNGVMPMIAMSIKAGTVDDESSGSEFFLFFNFH 2923
2881 Db RPPRQSLQELQNGVMPMIAMSIKAGTVDDESSGSEFFLFFNFH 2923

RESULT 5

US-10-120-801-53
; Sequence 53, Application US/10120801
; Publication No. US20030203843A1
; GENERAL INFORMATION:
; APPLICANT: Pena, Carol
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shimkets, Richard
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Mehraban, Fuad
; APPLICANT: Topper, James N.
; APPLICANT: Malyankar, Uriel
; APPLICANT: Wasserman, Scott
; APPLICANT: Edinger, Shlomit
; APPLICANT: Smithson, Glenda
; APPLICANT: Gunther, Erik
; APPLICANT: Komuves, Laszlo
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-340
; CURRENT APPLICATION NUMBER: US/10/120,801
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/285748
; PRIOR FILING DATE: 2001-04-23

; PRIOR APPLICATION NUMBER: 60/286068									
; PRIOR FILING DATE: 2001-04-24									
; PRIOR APPLICATION NUMBER: 60/286292									
; PRIOR FILING DATE: 2001-04-25									
; PRIOR APPLICATION NUMBER: 60/288334									
; PRIOR FILING DATE: 2001-05-03									
; PRIOR APPLICATION NUMBER: 60/291241									
; PRIOR FILING DATE: 2001-05-16									
; PRIOR APPLICATION NUMBER: 60/322284									
; PRIOR FILING DATE: 2001-09-14									
; PRIOR APPLICATION NUMBER: 60/285609									
; PRIOR FILING DATE: 2001-04-20									
; NUMBER OF SEQ ID NOS: 155									
; SOFTWARE: PatentIn Ver. 2.1									
; SEQ ID NO 53									
; LENGTH: 2923									
; TYPE: PRT									
; ORGANISM: Drosophila melanogaster									
US-10-120-801-53									
Query Match 100.0%; Score 15545; DB 15; Length 2923;									
Best Local Similarity 100.0%; Pred. No. 0;									
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;									
Qy	1	MRSPATGVPLPTPPPLLLLLLLLLPPPLGGDQVGPCRSIGSRGSSGACAPMGWLCPS	60						
Db	1	MRSPATGVPLPTPPPLLLLLLLLLPPPLGGDQVGPCRSIGSRGSSGACAPMGWLCPS	60						
Qy	61	SASNLWLYTSRCRDAGTGLHVLPHDGLRVNCPSEAHIPPLPAPEGCPMSCRLLGIG	120						
Db	61	SASNLWLYTSRCRDAGTGLHVLPHDGLRVNCPSEAHIPPLPAPEGCPMSCRLLGIG	120						
Qy	121	GHLSPQGLKTLPEHPCLKAPRLRCQSKLAQAPGLRAGERSPEESIGRRKRNNTAQQ	180						
Db	121	GHLSPQGLKTLPEHPCLKAPRLRCQSKLAQAPGLRAGERSPEESIGRRKRNNTAQQ	180						
Qy	181	FQPPSYQATVPENQAGTVPASIRAIIDPDEGEAGLENTMDALFDSRSNQFSLDPTVGA	240						
Db	181	FQPPSYQATVPENQAGTVPASIRAIIDPDEGEAGLENTMDALFDSRSNQFSLDPTVGA	240						
Qy	241	VTTAEELDRETKSTHFRVTAQDHGMPRRSALATLTLVTDNDHPVPEQQEYKESLRE	300						
Db	241	VTTAEELDRETKSTHFRVTAQDHGMPRRSALATLTLVTDNDHPVPEQQEYKESLRE	300						
Qy	301	NLEVGYEVLTVRAQDGPANANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDVREEV	360						
Db	301	NLEVGYEVLTVRAQDGPANANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDVREEV	360						
Qy	361	ESYQLTVASDQGRDGPRTTAAVFLSVEDDDNDNAPQPSKRYVQVREDVTPGAPVLR	420						
Db	361	ESYQLTVASDQGRDGPRTTAAVFLSVEDDDNDNAPQPSKRYVQVREDVTPGAPVLR	420						
Qy	421	VTASDRDKGSNAVHYHYSIMSGNARGQFYLDQAQTGALDWSPLDYETTKYTLRVRAQDGG	480						
Db	421	VTASDRDKGSNAVHYHYSIMSGNARGQFYLDQAQTGALDWSPLDYETTKYTLRVRAQDGG	480						
Qy	481	RPPLSNVSGLVTVQVLIDINNAPIFVSTPFOATVLESVPLGYLVHQAIDADAGNARL	540						
Db	481	RPPLSNVSGLVTVQVLIDINNAPIFVSTPFOATVLESVPLGYLVHQAIDADAGNARL	540						
Qy	541	EYRLAGVGHDPPTFNNGTGWSVAAELDREEDVPYSGVEARDHGTTPALTASASVTV	600						
Db	541	EYRLAGVGHDPPTFNNGTGWSVAAELDREEDVPYSGVEARDHGTTPALTASASVTV	600						
Qy	601	LDVNDNNPTFTQPEYTVRLNEDAAVGTSVVTVSAVDRDAHSVITYQITSGNTNRFSITS	660						
Db	601	LDVNDNNPTFTQPEYTVRLNEDAAVGTSVVTVSAVDRDAHSVITYQITSGNTNRFSITS	660						
Qy	661	QSGGGLVSLALPLDYKLERQVLAVTASDGTROQTAQIVVNVTDANTHRVPFOSSHVTN	720						
Db	661	QSGGGLVSLALPLDYKLERQVLAVTASDGTROQTAQIVVNVTDANTHRVPFOSSHVTN	720						
Qy	721	VNDRPAGTTVVLISATDEDTGENARITYFMEDSIPQFRIDADTGA VTTQAEILDYEDQVS	780						

Db 1801 PCPANSYCSNDWDSVSCSDPGYIGDNCNTNVCIDLNCPEHQSVCTRKPSAPHGYYCECPDN 1860
Qy YLGPYCETRIDQPCPRGWWGHTPCGPNCDVSKGFDPCDNKTSGECHCKENHYRPPGSPT 1920
Db YLGPYCETRIDQPCPRGWWGHTPCGPNCDVSKGFDPCDNKTSGECHCKENHYRPPGSPT 1920
Qy CLICDCYPTGSLSRVCDPDEQCCKPGVIGROCDRCNDPFAEVTNGCEVNYDSCPRAI 1980
Db CLICDCYPTGSLSRVCDPDEQCCKPGVIGROCDRCNDPFAEVTNGCEVNYDSCPRAI 1980
Qy EAGIWWPRTRGLPAAAPCPKSGFCTAVRHCDHRGMLPPNLFNCTSTFSELKGFABRL 2040
Db EAGIWWPRTRGLPAAAPCPKSGFCTAVRHCDHRGMLPPNLFNCTSTFSELKGFABRL 2040
Qy QRNESGLDSGRSQQLALLRNATQHTAGYGSVDKVAQOLATRLLAHSTQRGFGLSATQ 2100
Db QRNESGLDSGRSQQLALLRNATQHTAGYGSVDKVAQOLATRLLAHSTQRGFGLSATQ 2100
Qy DVHFTENLLRVGSALLDTANKRHWEILQOTEGGTAWLLQHYEAVASALQNMRTYLSPF 2160
Db DVHFTENLLRVGSALLDTANKRHWEILQOTEGGTAWLLQHYEAVASALQNMRTYLSPF 2160
Qy TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRETPPVVRPAG 2220
Db TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRETPPVVRPAG 2220
Qy PGEAQEPPELARRQRHPPELSQGEAVASVIIYRTLGLLPHNYDPDKRSRVPKRPIINT 2280
Db PGEAQEPPELARRQRHPPELSQGEAVASVIIYRTLGLLPHNYDPDKRSRVPKRPIINT 2280
Qy PVWSISVHDDRELLPRALDKPVTVQFRLLFTEERTKPCVFWNHSILVSGTGGWSARGCE 2340
Db PVWSISVHDDRELLPRALDKPVTVQFRLLFTEERTKPCVFWNHSILVSGTGGWSARGCE 2340
Qy VVFNESHVSCQCNHMTSFVLMVDSRRENGEILPLKTLTVVALGVTLAALLFFFTL 2400
Db VVFNESHVSCQCNHMTSFVLMVDSRRENGEILPLKTLTVVALGVTLAALLFFFTL 2400
Qy LRILRSQHGIIRNLTAALGLAQLVFLGIGNQADLPFACTVIAILLHFLYLCTFSWALLE 2460
Db LRILRSQHGIIRNLTAALGLAQLVFLGIGNQADLPFACTVIAILLHFLYLCTFSWALLE 2460
Qy ALHLYRALTEVRDVTNGTMRYYMLGCVPAFIFGLAVGLDPEGYGNDPCWLSIYDTLI 2520
Db ALHLYRALTEVRDVTNGTMRYYMLGCVPAFIFGLAVGLDPEGYGNDPCWLSIYDTLI 2520
Qy WSPAGVAFVMSVVELYILAAASCAQROGFEKKGVPVSGLOPSFVILLLSATLALL 2580
Db WSPAGVAFVMSVVELYILAAASCAQROGFEKKGVPVSGLOPSFVILLLSATLALL 2580
Qy LSVNSDTLLFHYLPATCNCIQGPFIFLSYVVLSEKVRKALKIACSRKPSDPDPALTTKSTL 2640
Db LSVNSDTLLFHYLPATCNCIQGPFIFLSYVVLSEKVRKALKIACSRKPSDPDPALTTKSTL 2640
Qy TSSVNCSPYADGRLYQPYGDSAGSLHSTSRGSKQSPSYIPFLIRRESALNPGQPPGLG 2700
Db TSSVNCSPYADGRLYQPYGDSAGSLHSTSRGSKQSPSYIPFLIRRESALNPGQPPGLG 2700
Qy DPGSLFLEGQDQDHPDSDLSLEDQDQGSYASTHSSDEEEEEEAEAPPGEQG 2760
Db DPGSLFLEGQDQDHPDSDLSLEDQDQGSYASTHSSDEEEEEEAEAPPGEQG 2760
Qy WDSLPGAEARLPKHSYPCGPGPGKAPWPGDGTGTTAKESSGNGAPERLRENGDALSR 2820
Db WDSLPGAEARLPKHSYPCGPGPGKAPWPGDGTGTTAKESSGNGAPERLRENGDALSR 2820
Qy EGSIGLPLPGSSAQPHKGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASEGSRGGPPP 2880
Db EGSIGLPLPGSSAQPHKGILKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASEGSRGGPPP 2880
Qy RPPRQSLQEOQNGVMPITAMSIKAGTVDEDSGSEFLFFNFHLH 2923
Db RPPRQSLQEOQNGVMPITAMSIKAGTVDEDSGSEFLFFNFHLH 2923

RESULT 6

US-10-292-798-932
; Sequence 932, Application US/10292798
; Publication No. US20030235833A1
; GENERAL INFORMATION:
; APPLICANT: SUMA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; PRIOR FILING DATE: 2002-11-13
; PRIOR APPLICATION NUMBER: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2070
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 932
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-292-798-932

Query Match 100.0%; Score 15545; DB 15; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MRSPTATGVPPTPPPPPLLLLLLLLLPPPLGQVGPCRSLSGRGSSGACAPMGWLCP 60
Db 1 MRSPTATGVPPTPPPPPLLLLLLLLLPPPLGQVGPCRSLSGRGSSGACAPMGWLCP 60
Qy 61 SASNLWLYTSRCRDAGTGLTGHLPVHDGLRVWCPESEAHILPLPAPGCPWSCLLGIG 120
Db 61 SASNLWLYTSRCRDAGTGLTGHLPVHDGLRVWCPESEAHILPLPAPGCPWSCLLGIG 120
Qy 121 GHLSPOQKLTLPPEHPCLKAPRLRCQSKLAQAQPLRAGERSPEESLGGRKRNVNTAPQ 180
Db 121 GHLSPOQKLTLPPEHPCLKAPRLRCQSKLAQAQPLRAGERSPEESLGGRKRNVNTAPQ 180
Qy 181 FQPPSYQATVPENQAGTVPASLRAIDPDEGEACGLRYTMDALFDSRSNQFFSLDPVTGA 240
Db 181 FQPPSYQATVPENQAGTVPASLRAIDPDEGEACGLRYTMDALFDSRSNQFFSLDPVTGA 240
Qy 241 VTTAEELDRKTSKTHFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOYKESLRE 300
Db 241 VTTAEELDRKTSKTHFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOYKESLRE 300
Qy 301 NLEVGVEVLTVRATGDGAPNPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDREEV 360
Db 301 NLEVGVEVLTVRATGDGAPNPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDREEV 360
Qy 361 ESYQLTVEASDQGRDPGPRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREDVTGAPVLR 420
Db 361 ESYQLTVEASDQGRDPGPRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREDVTGAPVLR 420
Qy 421 VTASDRDKGSNAVHYHISMGNGARQFYLDATQALDVVSLDYETTYKEYTLRVRAQOGG 480
Db 421 VTASDRDKGSNAVHYHISMGNGARQFYLDATQALDVVSLDYETTYKEYTLRVRAQOGG 480
Qy 481 RPPLSNVSGLVTVQVLDINDNAPILFVSTPFGAATVLESVPLGVYLHVQAIADADAGDNARL 540
Db 481 RPPLSNVSGLVTVQVLDINDNAPILFVSTPFGAATVLESVPLGVYLHVQAIADADAGDNARL 540
Qy 541 EYRLAGVGHDFPPTTINNGTGWISVAEELDREVDYFSGVEARDHGTGPALTASASVTV 600
Db 541 EYRLAGVGHDFPPTTINNGTGWISVAEELDREVDYFSGVEARDHGTGPALTASASVTV 600
Qy 601 LDVNDNPPPTQPRYTVRLNEDAAVGTSVTVSAVDRDHAHSVIITYQITSGNTRNRFSLTS 660
Db 601 LDVNDNPPPTQPRYTVRLNEDAAVGTSVTVSAVDRDHAHSVIITYQITSGNTRNRFSLTS 660

Db 601 LDVNDNNPTFTQPEYTVRLNEDAAVGTSVVTVSAVDRDAHSVITYQITSGNTRNRFSPITS 660
Qy 661 QSGGELVSLALPLDYKLERQYVLAVTASDGTRODTAQIVVNTDANTHRPVSQSHYTN 720
Db 661 QSGGELVSLALPLDYKLERQYVLAVTASDGTRODTAQIVVNTDANTHRPVSQSHYTN 720
Qy 721 VNEDRPAGTTVLISATDEDTGNARITYFMEDSIPOFRIDADTGAVTTOAELDYEDQVS 780
Db 721 VNEDRPAGTTVLISATDEDTGNARITYFMEDSIPOFRIDADTGAVTTOAELDYEDQVS 780
Qy 781 YTLAITARDNGIPQKSDTTTLEILVNDVNDNAPQFLRDSYQGSVYEDVPFTSVLQISAT 840
Db 781 YTLAITARDNGIPQKSDTTTLEILVNDVNDNAPQFLRDSYQGSVYEDVPFTSVLQISAT 840
Qy 841 DRDGLNGRVYFTQGGDDGDDPFIVESTSGIIVRTLRRLDRENVAYVLRAYAVDKGMP 900
Db 841 DRDGLNGRVYFTQGGDDGDDPFIVESTSGIIVRTLRRLDRENVAYVLRAYAVDKGMP 900
Qy 901 ARTPEMVTTVLDVNDNPPVFEQDEPDVFEVENSPIGLAVARTATDPDEGTNAQIMYOI 960
Db 901 ARTPEMVTTVLDVNDNPPVFEQDEPDVFEVENSPIGLAVARTATDPDEGTNAQIMYOI 960
Qy 961 VEGNIPVFOIDIPSGELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDP 1020
Db 961 VEGNIPVFOIDIPSGELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDP 1020
Qy 1021 PVLGNFELFNYYNTRSSFPGGAIGRPVPAHPDIDSLSITYFERGNELSLVLLNASTG 1080
Db 1021 PVLGNFELFNYYNTRSSFPGGAIGRPVPAHPDIDSLSITYFERGNELSLVLLNASTG 1080
Qy 1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVAQCALRTIITDEMLTHSITLRLEDMSPER 1140
Db 1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVAQCALRTIITDEMLTHSITLRLEDMSPER 1140
Qy 1141 FLSPLLGLFIAQAATLATPDDHVNVQORDTAPGCHILNLSVSGPPGPGPPFL 1200
Db 1141 FLSPLLGLFIAQAATLATPDDHVNVQORDTAPGCHILNLSVSGPPGPGPPFL 1200
Qy 1201 PSEDQLERLYNRLSLTAISAQRLVLPDDNICUREPCENTMRCVSVLRFDSAPPTASS 1260
Db 1201 PSEDQLERLYNRLSLTAISAQRLVLPDDNICUREPCENTMRCVSVLRFDSAPPTASS 1260
Qy 1261 VLFRPIHPVGLRCRCPGFTGDCETEVDLCYSRCPGPHGRCSREGGYTCLCRDGYTG 1320
Db 1261 VLFRPIHPVGLRCRCPGFTGDCETEVDLCYSRCPGPHGRCSREGGYTCLCRDGYTG 1320
Qy 1321 EHCEVSARSGRCTPGVCKNGTGVNLLVGGFKDCPSGDFEKPYPQVTTTSFPAHSFIIF 1380
Db 1321 EHCEVSARSGRCTPGVCKNGTGVNLLVGGFKDCPSGDFEKPYPQVTTTSFPAHSFIIF 1380
Qy 1381 RGLRQRFHTLALSFAFKERDGLLLYNGRPNKXHDFALEVIQEQVOLTFPSAGESITTWS 1440
Db 1381 RGLRQRFHTLALSFAFKERDGLLLYNGRPNKXHDFALEVIQEQVOLTFPSAGESITTWS 1440
Qy 1441 PFVPGVSDGOWHTVOLKYNKPLLGOTGLPOGSEQKAVVTVDCDGTGVALRFGSVLG 1500
Db 1441 PFVPGVSDGOWHTVOLKYNKPLLGOTGLPOGSEQKAVVTVDCDGTGVALRFGSVLG 1500
Qy 1501 NYSCAAQTOGGSKSLDLTGPLLLGGVPDLPESPFVRMRQFVGCNRLQVDSRHIDMAD 1560
Db 1501 NYSCAAQTOGGSKSLDLTGPLLLGGVPDLPESPFVRMRQFVGCNRLQVDSRHIDMAD 1560
Qy 1561 FIANNGTVPCKAKNVCDNSTCHNGGTQVQWMDAPSCBCLPLFGFGKSCAQEMANPOHFL 1620
Db 1561 FIANNGTVPCKAKNVCDNSTCHNGGTQVQWMDAPSCBCLPLFGFGKSCAQEMANPOHFL 1620
Qy 1621 GSSLVAMHGLSLPIQPMYLSLMPFRTOADGVLLQAITRGRSTITTLQREGHVMVLSVEGT 1680
Db 1621 GSSLVAMHGLSLPIQPMYLSLMPFRTOADGVLLQAITRGRSTITTLQREGHVMVLSVEGT 1680
Qy 1681 GLQASSLRFEPGRANDGDWHHAQALGASGPGHAILSFYDQOQRAEGNLGPRHLGHL 1740
Db 1681 GLQASSLRFEPGRANDGDWHHAQALGASGPGHAILSFYDQOQRAEGNLGPRHLGHL 1740

Qy 1741 NITVGGIPGPAGGVARGCLOQVRVSDTPEGVNSLOPSHGESINVEQCSLPDPCDSN 1800
Db 1741 NITVGGIPGPAGGVARGCLOQVRVSDTPEGVNSLOPSHGESINVEQCSLPDPCDSN 1800
Qy 1801 PCPANSYCSNDWDSDSYSCDPSGYGDNCTNVCDLNPCEHOSVCTRKPSPHGYTCECP 1860
Db 1801 PCPANSYCSNDWDSDSYSCDPSGYGDNCTNVCDLNPCEHOSVCTRKPSPHGYTCECP 1860
Qy 1861 YLGPYCETRIDQPCPRGWGHPTCGPCNCDVSKGDFDPCNKTSGECKENHYRPPSPPT 1920
Db 1861 YLGPYCETRIDQPCPRGWGHPTCGPCNCDVSKGDFDPCNKTSGECKENHYRPPSPPT 1920
Qy 1921 CLLCDCYPTGSLSRVCDPEDQCPKPGVIGRQCDRCNDNPAEVTVTNGCEVNYDSCPRAI 1980
Db 1921 CLLCDCYPTGSLSRVCDPEDQCPKPGVIGRQCDRCNDNPAEVTVTNGCEVNYDSCPRAI 1980
Qy 1981 EAGIWWPRTREGLPAAAPCPKXSGFTAVRHCDHRGMLPPNLFNCTSIITFSELKGFARL 2040
Db 1981 EAGIWWPRTREGLPAAAPCPKXSGFTAVRHCDHRGMLPPNLFNCTSIITFSELKGFARL 2040
Qy 2041 QRNESGLDSGRSQOALALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFGLSATQ 2100
Db 2041 QRNESGLDSGRSQOALALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFGLSATQ 2100
Qy 2101 DVHFTENLLRVGSALLDTANKRHWELIQOTEGGTAWLLQHYEAVASALAQNMRTYLSPP 2160
Db 2101 DVHFTENLLRVGSALLDTANKRHWELIQOTEGGTAWLLQHYEAVASALAQNMRTYLSPP 2160
Qy 2161 TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRTPPVVRPAG 2220
Db 2161 TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRTPPVVRPAG 2220
Qy 2221 PGEAQEPBELARRORRHPPELSQGEAVASVIIYRTLGLLPHNYDPDKSLRVPKRPINT 2280
Db 2221 PGEAQEPBELARRORRHPPELSQGEAVASVIIYRTLGLLPHNYDPDKSLRVPKRPINT 2280
Qy 2281 PVVSISSHDDRELLPRALDKPVTQFRLEETERTKPICVFNHNSILVSGTGMSARGCE 2340
Db 2281 PVVSISSHDDRELLPRALDKPVTQFRLEETERTKPICVFNHNSILVSGTGMSARGCE 2340
Qy 2341 VVFRNESHVSCQCHNTSFVILMDVSRRENGEILPLKTLTYVALGVTLLAALLLTFPFLTL 2400
Db 2341 VVFRNESHVSCQCHNTSFVILMDVSRRENGEILPLKTLTYVALGVTLLAALLLTFPFLTL 2400
Qy 2401 LRILRSNQHGRIRNLTAAALQALVFLGIGNOALPPACTVIAILLHFLYLCSTSWALLE 2460
Db 2401 LRILRSNQHGRIRNLTAAALQALVFLGIGNOALPPACTVIAILLHFLYLCSTSWALLE 2460
Qy 2461 ALHLRYALTEVRDVTNTPMRFYMLGWGPAPITGLAVGLDPEGVNDPFCWLSTYDFTLI 2520
Db 2461 ALHLRYALTEVRDVTNTPMRFYMLGWGPAPITGLAVGLDPEGVNDPFCWLSTYDFTLI 2520
Qy 2521 WSFAGVPAFVAVSMVSFVLYILAAASCAARQGFKEKGPVSGLQPSFAVLLLSATWLLAL 2580
Db 2521 WSFAGVPAFVAVSMVSFVLYILAAASCAARQGFKEKGPVSGLQPSFAVLLLSATWLLAL 2580
Qy 2581 LSVNSDITLLFHYLFATCNICIQGPFIFLSYVLSKEVRKALKKACSRKSPDPALTTKSTL 2640
Db 2581 LSVNSDITLLFHYLFATCNICIQGPFIFLSYVLSKEVRKALKKACSRKSPDPALTTKSTL 2640
Qy 2641 TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPLFLRERSALNPGQPPGLG 2700
Db 2641 TSSYNCPSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPLFLRERSALNPGQPPGLG 2700
Qy 2701 DFGSLFLEGQDQHDPTDSDSLSDLEDDQSGSYASTHSSDESEEEEEEEEAAPPGBOG 2760
Db 2701 DFGSLFLEGQDQHDPTDSDSLSDLEDDQSGSYASTHSSDESEEEEEEEEAAPPGBOG 2760
Qy 2761 WDSLLGPGABRLPLHSTPKDGGPGKAPWPGDFGTTAKESGNGCAPERLRENGDALSR 2820
Db 2761 WDSLLGPGABRLPLHSTPKDGGPGKAPWPGDFGTTAKESGNGCAPERLRENGDALSR 2820

Qy 2821 EGSGLPLPGSSAOPHKGILKKKCLPTISEKSLRLRLPLEQCTGSSRGSASSESGRGGPPP 2880
Db 2821 EGSGLPLPGSSAOPHKGILKKKCLPTISEKSLRLRLPLEQCTGSSRGSASSESGRGGPPP 2880
Qy 2881 RPPRQSLQEOQLNGVMPFIAMSIKAGTVDEDSGSEFLFFNPLH 2923
Db 2881 RPPRQSLQEOQLNGVMPFIAMSIKAGTVDEDSGSEFLFFNPLH 2923

RESULT 7

US-10-038-854-70
; Sequence 70, Application US/10038854
; Publication No. US20040022781A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Li, Li
; APPLICANT: Wolenc, Adam R
; APPLICANT: Vernet, Corine
; APPLICANT: Eisen, Andrew J
; APPLICANT: Liu, Xiaohong
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spaderna, Steven K
; APPLICANT: Gorman, Linda
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gusev, Vladimir Y
; APPLICANT: Gangolli, Esha A
; APPLICANT: Guo, Xiaojia S
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Casman, Stacie J
; APPLICANT: Boldog, Ferenc
; APPLICANT: Burgess, Catherine E
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gunther, Erik
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: MacDougall, John R
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-230
; CURRENT APPLICATION NUMBER: US/10/038,854
; CURRENT FILING DATE: 2003-01-22
; PRIOR APPLICATION NUMBER: 60/258,928
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 60/259,415
; PRIOR FILING DATE: 2001-01-02
; PRIOR APPLICATION NUMBER: 60/259,785
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 60/269,814
; PRIOR FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 60/279,832
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,833
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,863
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/283,889
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/284,447
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/286,683
; PRIOR FILING DATE: 2001-04-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 411
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 70
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-038-854-70

Query Match 100.0%; Score 15545; DB 15; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MRSPTATGVPPLTPPPPLLLLLLLLLPPPLGDOVGPCRSGLSGRSGGACAPMGLWCLPS 60
Db 1 MRSPTATGVPPLTPPPPLLLLLLLLLPPPLGDOVGPCRSGLSGRSGGACAPMGLWCLPS 60
Qy 61 SASNLWLYTSRCRDAGTGLHLPVHDGLRVWCPESEAHIPLPAPGCGPMSCLLIG 120
Db 61 SASNLWLYTSRCRDAGTGLHLPVHDGLRVWCPESEAHIPLPAPGCGPMSCLLIG 120
Qy 121 GHLSPOGKLTLPPEHPCLKAPRLCQSKLAQAQGLRAGERSPEESLGRKRNVNTAPQ 180
Db 121 GHLSPOGKLTLPPEHPCLKAPRLCQSKLAQAQGLRAGERSPEESLGRKRNVNTAPQ 180
Qy 181 FOPESYQATVPENOPAGTTPVASLRAIDPDEGEACRLTYTMDALFDSRSNQFSLDPVTGA 240
Db 181 FOPESYQATVPENOPAGTTPVASLRAIDPDEGEACRLTYTMDALFDSRSNQFSLDPVTGA 240
Qy 241 VTTAEELDRKTSKTHVFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEKESLRE 300
Db 241 VTTAEELDRKTSKTHVFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOEKESLRE 300
Qy 301 NLEVGVEVLTVRATDGDAPPNNANILYRLLEGSGSPSEVFIDPRSGVIRTRGPVDRREV 360
Db 301 NLEVGVEVLTVRATDGDAPPNNANILYRLLEGSGSGSPSEVFIDPRSGVIRTRGPVDRREV 360
Qy 361 ESYQLTVEASDQGRDPCPRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREVDVTPGAPVLR 420
Db 361 ESYQLTVEASDQGRDPCPRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREVDVTPGAPVLR 420
Qy 421 VTASDRDKGSNAVVHYSIMSGNARGQFYDLAQGTALDVSPDLTETTKETTLRVAQDGG 480
Db 421 VTASDRDKGSNAVVHYSIMSGNARGQFYDLAQGTALDVSPDLTETTKETTLRVAQDGG 480
Qy 481 RPPLSNVSGLVTVQVLVDINDNAPIFVSTPPQATVLESVPLGLYLHLVQAIADADAGDNARL 540
Db 481 RPPLSNVSGLVTVQVLVDINDNAPIFVSTPPQATVLESVPLGLYLHLVQAIADADAGDNARL 540
Qy 541 EYRLAGVGHDPFPTTINNGTGWISVAEELDREVDVFSFGVEARDHGTALFASASVTV 600
Db 541 EYRLAGVGHDPFPTTINNGTGWISVAEELDREVDVFSFGVEARDHGTALFASASVTV 600
Qy 601 LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGTRNRFSTIS 660
Db 601 LDVNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGTRNRFSTIS 660
Qy 661 QSGGLVSLALPLDYKLERQVLAVTASDGTQDTAQIIVNVTDANTHRPVFQSSHVTN 720
Db 661 QSGGLVSLALPLDYKLERQVLAVTASDGTQDTAQIIVNVTDANTHRPVFQSSHVTN 720
Qy 721 VNEDRPAGTTWLLISATDEDTGENARITYPMEDSIPOFRIDADTGAVTQAELEDYEDQVS 780
Db 721 VNEDRPAGTTWLLISATDEDTGENARITYPMEDSIPOFRIDADTGAVTQAELEDYEDQVS 780
Qy 781 YTLAITARDNGIPKSDTITYLEILVNDVNDNAPQFLRDSYQGSVVVEDVPPTFSLVQISAT 840
Db 781 YTLAITARDNGIPKSDTITYLEILVNDVNDNAPQFLRDSYQGSVVVEDVPPTFSLVQISAT 840
Qy 841 DRDSGLNGRVFTYFQGGDDGDGDFIVESTSGIVTLRRLRDRENVAAQVYLRAVADKGMPP 900
Db 841 DRDSGLNGRVFTYFQGGDDGDGDFIVESTSGIVTLRRLRDRENVAAQVYLRAVADKGMPP 900
Qy 901 ARTPEMEVTVTVLDVNDNPPVFEQDEFDFVEENSPIGLAVARVTATDDECTNAQIMYQI 960
Db 901 ARTPEMEVTVTVLDVNDNPPVFEQDEFDFVEENSPIGLAVARVTATDDECTNAQIMYQI 960
Qy 961 VEGNIPEVFQDIFPSGELTALVDLDYEDRPEYVLVIQATSAPLVSRAVTHVRLLDNDNP 1020
Db 961 VEGNIPEVFQDIFPSGELTALVDLDYEDRPEYVLVIQATSAPLVSRAVTHVRLLDNDNP 1020

1021 PVLGNPEILFNNYVTRNSSFPG3AIGRVPAPDIDSDSLTYSFERGNELSLVLLNASTG 1080
1021 PVLGNPEILFNNYVTRNSSFPG3AIGRVPAPDIDSDSLTYSFERGNELSLVLLNASTG 1080
1081 ELKLSRALDNNRRPLEA1MSVLVSDGVH5VTAQCALRVTTITDMLTHSITLRLDMSPER 1140
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1141 FLSPLLGLFTQA0AATLATPDPHVVFNVDRTDAPGHHILNVSLVSGPPGPGPPPL 1200
1141 FLSPLLGLFTQA0AATLATPDPHVVFNVDRTDAPGHHILNVSLVSGPPGPGPPPL 1200
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1261 VLFPRIPHPVGLRCRCPPGFTGDYCEDEVLCYSRPGPHGRCSRREGGYTCLCRDGYTG 1320
1321 EHCVSARSRCRTPGVCKNGGTCVNLVGGFKDCPSGDPPEKYCQVTTTRSPAH5FITF 1380
1321 EHCVSARSRCRTPGVCKNGGTCVNLVGGFKDCPSGDPPEKYCQVTTTRSPAH5FITF 1380
1381 RGLRQRFHTLALSFAFKERDGLLLYNGRENEKHFVLEVIQEQVQLTFSAGESITTVS 1440
1381 RGLRQRFHTLALSFAFKERDGLLLYNGRENEKHFVLEVIQEQVQLTFSAGESITTVS 1440
1441 PFVPGVSDGQWHTVQLKYNNKPLGQTLPGQSPSEQKVAVTVDGDGTGVALRFGSVLG 1500
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1501 NYSCAAQGTGGSKKSLDGLTGPLLLGGVPLDPSFPVRMRQFVGCWRNLQVDSRHIDMAD 1560
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1561 FIANNQVTPGCPAKKNCVDSNTCHNGTCVNWDAFCECPLGPGKSCAQEMANPQHEL 1620
1561 FIANNQVTPGCPAKKNCVDSNTCHNGTCVNWDAFCECPLGPGKSCAQEMANPQHEL 1620
1621 GSSIVAMHGLSLPISQPWYLSLMFRTRQADGVLLQAITRGRSTITTLQREGHVMLSVEGT 1680
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1681 GLQASSLRLEBGRANDGWHHAQALGASGPGHAILISFDYGOORAEGLNLPRLHGLHS 1740
1681 GLQASSLRLEBGRANDGWHHAQALGASGPGHAILISFDYGOORAEGLNLPRLHGLHS 1740
1741 NITVGGIPGAGGVARGFRGLQGVVSDTPEGVNSLDPHSGESINVEQCCLPDPDCSN 1800
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1861 YLGPYCETRIDQPCPRGWGHTPCPCNCDVSKGFPDCKNTSGECHKENHYRPGSPT 1920
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1921 CLLCDYPTGSLSRVCDPEDGQCPKPGVIGROCDRCDNPPAEVTTNGCEVNDYDSCPRAI 1980
1921 CLLCDYPTGSLSRVCDPEDGQCPKPGVIGROCDRCDNPPAEVTTNGCEVNDYDSCPRAI 1980
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2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQIATRLLAHSTQRFGLSATQ 2100
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2101 DVHFTENLLRVGSALLDTANKRHWELIQTEGGTAWLLQHYEAYASALAQNMRTYLSPF 2160
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2161 TIVTPNIVISVVRLLDKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRETTPVVRPAG 2220
2221 PGEAQEPEELARRORRHPELSOGSAVASVIIYRTLAGLPHNDPDKRSURVPRPIINT 2280
2221 PGEAQEPEELARRORRHPELSOGSAVASVIIYRTLAGLPHNDPDKRSURVPRPIINT 2280
2281 PWSISVHDDDELLPRALDKPVTVQFRLLTEERTKPICVFNWHSILVSGTGMSARGCE 2340
2281 PWSISVHDDDELLPRALDKPVTVQFRLLTEERTKPICVFNWHSILVSGTGMSARGCE 2340
2341 VVFNESHVSCQCHMTSFAVLDVSRRENGEILPLKTLTVVALGVTLAALLTFFFLTL 2400
2341 VVFNESHVSCQCHMTSFAVLDVSRRENGEILPLKTLTVVALGVTLAALLTFFFLTL 2400
2401 LRILRSNOHGIRRNLTAAQLAQLVFLLLGINOADLPACTVIAILLHFLYLCITFSWALLE 2460
2401 LRILRSNOHGIRRNLTAAQLAQLVFLLLGINOADLPACTVIAILLHFLYLCITFSWALLE 2460
2461 ALHLYRALTEVRDVTGPMRFYFYMGLGMPAFITGLAVGLDPEGYGNPDFCMLSIDYTLI 2520
2461 ALHLYRALTEVRDVTGPMRFYFYMGLGMPAFITGLAVGLDPEGYGNPDFCMLSIDYTLI 2520
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2521 WSPAGPVAFVMSVFLYILAAASCAAQROGPFKPGVSGLPSPAVLLLSATWLLAL 2580
2581 LSVNSDTLFLHYLFATCNCIOGPFILSYVVLVSKVRKALKACSRKSPDPALTTKSTL 2640
2581 LSVNSDTLFLHYLFATCNCIOGPFILSYVVLVSKVRKALKACSRKSPDPALTTKSTL 2640
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2701 DPGSLFLEGQOQHDPTDSDLSLEDDQSGSVASTHSSDSEEEEEEEHAAFPGEQG 2760
2761 WDSLPGCAERLPLHSTPKCGPGKAPWPGDFGTTAKESSGNGAPERLRENGDALSR 2820
2761 WDSLPGCAERLPLHSTPKCGPGKAPWPGDFGTTAKESSGNGAPERLRENGDALSR 2820
2821 EGSGLPLPGSSAQPHKGLKKKCLPTTISEKSSLLRLEPLEQCTGSSRGSSASEGSRGQPPP 2880
2821 EGSGLPLPGSSAQPHKGLKKKCLPTTISEKSSLLRLEPLEQCTGSSRGSSASEGSRGQPPP 2880
2881 RPPPRQSLQEQINGVMPITAMSIKAGTVDEDSGSEFLFFNFHLH 2923
2881 RPPPRQSLQEQINGVMPITAMSIKAGTVDEDSGSEFLFFNFHLH 2923

RESULT 8

US-09-788-711A-2
; Sequence 2, Application US/09788711A
; Patent No. US20020058328A1
; GENERAL INFORMATION:
; APPLICANT: Tania Tamsin Testa
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30225
; CURRENT APPLICATION NUMBER: US/09/788,711A
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 0004196.2
; PRIOR FILING DATE: 2000-02-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 2956
; TYPE: PRT

! ORGANISM: HOMO SAPIENS
US-09-788-711A-2

Query Match 99.8%; Score 15518.5; DB 9; Length 2956;
Best Local Similarity 98.9%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 33; Gaps 1;

Qy	1	MRS	PATGVLPTPPPPPLLLLLPPPLLDGQVPCRSLSRGSGGACAPMGWLCPS	60
Db	1	MRS	PATGVLPTPPPPPLLLLLPPPLLDGQVPCRSLSRGSGGACAPMGWLCPS	60
Qy	61	SAS	NLWYTSRCRAGTCLTCHLPHDGLRWCPSESAHPLPAPGCPWSCRLLIG	120
Db	61	SAS	NLWYTSRCRAGTCLTCHLPHDGLRWCPSESAHPLPAPGCPWSCRLLIG	120
Qy	121	GHL	SPQKGLTPEBHPCAKPLRCQSKLAQAPGLRAGERSPEESLGGRRKRVNTAPQ	180
Db	121	GHL	SPQKGLTPEBHPCAKPLRCQSKLAQAPGLRAGERSPEESLGGRRKRVNTAPQ	180
Qy	181	FQP	SYQATVPENQAGTVPASLRAIDPDEGEAGLEVTMDALFDSRSNQFSLDPVTGA	240
Db	181	FQP	SYQATVPENQAGTVPASLRAIDPDEGEAGLEVTMDALFDSRSNQFSLDPVTGA	240
Qy	241	VTT	AELDRKTSKTHVFRVTAQDHGMPRRSALATLTILVTDNDHPVFEQYKESLRE	300
Db	241	VTT	AELDRKTSKTHVFRVTAQDHGMPRRSALATLTILVTDNDHPVFEQYKESLRE	300
Qy	301	NLE	YGYEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFIDPRSGVIRTRGPVDREEV	360
Db	301	NLE	YGYEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFIDPRSGVIRTRGPVDREEV	360
Qy	361	ESY	QLTVEASQGRDPGRSTTAAVFLSVEDDNDNAPOFSKRYVQVREDTVPGAPVLR	420
Db	361	ESY	QLTVEASQGRDPGRSTTAAVFLSVEDDNDNAPOFSKRYVQVREDTVPGAPVLR	420
Qy	421	VT	ASDRKGSNAVHYISMGNARGQFYLDQTCALDVVSPLDYETTKYTLVRAQDGG	480
Db	421	VT	ASDRKGSNAVHYISMGNARGQFYLDQTCALDVVSPLDYETTKYTLVRAQDGG	480
Qy	481	RP	PLSNVSGLVTVQVLINDNAPIFVSTPFOATVLESVPLGLVLRVQAIDADAGDNARL	540
Db	481	RP	PLSNVSGLVTVQVLINDNAPIFVSTPFOATVLESVPLGLVLRVQAIDADAGDNARL	540
Qy	541	EY	LAGVGHDPPTINGTGMISVAEELDREVDYFSGVEARDHGTPALTASASVTV	600
Db	541	EY	LAGVGHDPPTINGTGMISVAEELDREVDYFSGVEARDHGTPALTASASVTV	600
Qy	601	LD	VNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITVQITSGNTRNRFSLTS	660
Db	601	LD	VNDNPTFTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITVQITSGNTRNRFSLTS	660
Qy	661	QSG	GLVSLALPLDYKLERQVVLAVTASDGTQDQTAQIVNVNTDANTHRPVFQSSHVTN	720
Db	661	QSG	GLVSLALPLDYKLERQVVLAVTASDGTQDQTAQIVNVNTDANTHRPVFQSSHVTN	720
Qy	721	VNE	DRPAGTTVLLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTQAELEDYEQVS	780
Db	721	VNE	DRPAGTTVLLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTQAELEDYEQVS	780
Qy	781	YTL	AITARDNGIPKSDTTTLEILVNDVNDNAPOFLRDSYQGSYVEDVPPTSLVLOISAT	840
Db	781	YTL	AITARDNGIPKSDTTTLEILVNDVNDNAPOFLRDSYQGSYVEDVPPTSLVLOISAT	840
Qy	841	DR	SGLGRVPYTFQGGDGDGDFIVESTSGIVTLRLRDENVAQVVLRAVADKGMPP	900
Db	841	DR	SGLGRVPYTFQGGDGDGDFIVESTSGIVTLRLRDENVAQVVLRAVADKGMPP	900
Qy	901	ART	PMVTVTVLDVNDNPPVFEQDFVFEENSPIGLAVARVTATDPDEGTNAQIMYQI	960
Db	901	ART	PMVTVTVLDVNDNPPVFEQDFVFEENSPIGLAVARVTATDPDEGTNAQIMYQI	960
Qy	961	VE	GNIPVFOQLDIFSGELTALVDLDYEDRPPYLVIOATSAPLVSRATVHVRLDRNDP	1020
Db	961	VE	GNIPVFOQLDIFSGELTALVDLDYEDRPPYLVIOATSAPLVSRATVHVRLDRNDP	1020

Db	961	VE	GNIPVFOQLDIFSGELTALVDLDYEDRPPYLVIOATSAPLVSRATVHVRLDRNDP	1020
Qy	1021	PVL	GNFELFNYYVTRSSSPFGAIGRPAHDPIDSDLSYSPFERGNELSVLVLLNASTG	1080
Db	1021	PVL	GNFELFNYYVTRSSSPFGAIGRPAHDPIDSDLSYSPFERGNELSVLVLLNASTG	1080
Qy	1081	EL	KLSRALDNNRPLEATMSVLSDGHSVTAQCALRVTLITDEMLTHTITLRELDMSPER	1140
Db	1081	EL	KLSRALDNNRPLEATMSVLSDGHSVTAQCALRVTLITDEMLTHTITLRELDMSPER	1140
Qy	1141	FL	SPLLGLFIOAVALATPPDHVVVFNVRQDTPDAPGGHILNVLSVQPPPGGPPFL	1200
Db	1141	FL	SPLLGLFIOAVALATPPDHVVVFNVRQDTPDAPGGHILNVLSVQPPPGGPPFL	1200
Qy	1201	PSE	DLQERLYNRLSLLTAISAQORVLPFDNDI CLRPCENYMRCSVLRFDSSAPFIASSS	1260
Db	1201	PSE	DLQERLYNRLSLLTAISAQORVLPFDNDI CLRPCENYMRCSVLRFDSSAPFIASSS	1260
Qy	1261	VL	FPIHPVGLRCRCPPGFTGDCETEVDLCYSRPCGPHGRCSREGGYTCLCRDGYTG	1320
Db	1261	VL	FPIHPVGLRCRCPPGFTGDCETEVDLCYSRPCGPHGRCSREGGYTCLCRDGYTG	1320
Qy	1321	EH	CVSARSGRCTPGVCKNGGTCVNLLVGGFKDCPCSPGDEKPYCQVTRTRFPFHSFTTF	1380
Db	1321	EH	CVSARSGRCTPGVCKNGGTCVNLLVGGFKDCPCSPGDEKPYCQVTRTRFPFHSFTTF	1380
Qy	1381	RGL	RFHTLALSFAFKERDGLLYNGRFNEKHFVFALEVIQEQVLTFSAGESTTTTVS	1440
Db	1381	RGL	RFHTLALSFAFKERDGLLYNGRFNEKHFVFALEVIQEQVLTFSAGESTTTTVS	1440
Qy	1441	PF	VGVSQDQWHVTVQIKYNNKPLLGOTGLPOGSEQKVAVTVDGCOTGVALRFGSVLG	1500
Db	1441	PF	VGVSQDQWHVTVQIKYNNKPLLGOTGLPOGSEQKVAVTVDGCOTGVALRFGSVLG	1500
Qy	1501	NY	SCAAGTQGGSKSLDLTGPLLLGGVPDLPESPFVVRMRQFVGMRLNVQDSRHDAD	1560
Db	1501	NY	SCAAGTQGGSKSLDLTGPLLLGGVPDLPESPFVVRMRQFVGMRLNVQDSRHDAD	1560
Qy	1561	FI	ANNVTGVCAPAKKNCVDSNTCHNGGTCVNQWDAFSCCEPLGFGGKSCAEMANPQHFL	1620
Db	1561	FI	ANNVTGVCAPAKKNCVDSNTCHNGGTCVNQWDAFSCCEPLGFGGKSCAEMANPQHFL	1620
Qy	1621	GSS	LVANHGLSLPISQPHWYLSLMPRTQADGVLLQAITRGHSTITLQIREGHVMSVEGT	1680
Db	1621	GSS	LVANHGLSLPISQPHWYLSLMPRTQADGVLLQAITRGHSTITLQIREGHVMSVEGT	1680
Qy	1681	GL	QASSLRLBPRANDGWHHAQALGASGPGHAILSFYDYGQQAEGNLGRLHGLHS	1740
Db	1681	GL	QASSLRLBPRANDGWHHAQALGASGPGHAILSFYDYGQQAEGNLGRLHGLHS	1740
Qy	1741	NI	TVGGIPGAGVARGFRCLQGVRSVDTPEGVNSLDPHSGESINVEQGCSLPDCDSN	1800
Db	1741	NI	TVGGIPGAGVARGFRCLQGVRSVDTPEGVNSLDPHSGESINVEQGCSLPDCDSN	1800
Qy	1801	PC	PANSYCSNDWDSYSCSDPGYTGDNCTVNDLNPCHEQSVCTRKPSAPHGYTCECPN	1860
Db	1801	PC	PANSYCSNDWDSYSCSDPGYTGDNCTVNDLNPCHEQSVCTRKPSAPHGYTCECPN	1860
Qy	1861	YL	GPCYCESTRIDQPCPRGMWGHPTCGPCNCVSKGDPDCKNTSGCHECKENHYRPPGSPT	1920
Db	1861	YL	GPCYCESTRIDQPCPRGMWGHPTCGPCNCVSKGDPDCKNTSGCHECKENHYRPPGSPT	1920
Qy	1921	CL	LCDCYPTGSLRVCDEQGCPCXPGVIGRQCDRCNDNPPAEVTTNGCEVNYDSCPRAI	1980
Db	1921	CL	LCDCYPTGSLRVCDEQGCPCXPGVIGRQCDRCNDNPPAEVTTNGCEVNYDSCPRAI	1980
Qy	1981	EAG	IWWPRTRFGLPAAAPCPKSGSGTAVRHCDHRGMLPPNLFNCTSTITFSELKGFABRL	2040
Db	1981	EAG	IWWPRTRFGLPAAAPCPKSGSGTAVRHCDHRGMLPPNLFNCTSTITFSELKGFABRL	2040
Qy	2041	OR	NESGLDSCRQOALLRNATQHTAGYFGSDVKVAYQATRLAHSTGORGCLSATQ	2100
Db	2041	OR	NESGLDSCRQOALLRNATQHTAGYFGSDVKVAYQATRLAHSTGORGCLSATQ	2100

Qy 2101 DVHFTENLRVGSALLDTANKRWELIQQTEGCTAMLLQHYEAYASALANRHTVLSPP 2160
 Db 2101 DVHFTENLRVGSALLDTANKRWELIQQTEGCTAMLLQHYEAYASALANRHTVLSPP 2160
 Qy 2161 TIVTPNIVISVRLDKGNFAGAKLPRYALRGQPPDLETTVILPESVFRETPPVVRPAG 2220
 Db 2161 TIVTPNIVISVRLDKGNFAGAKLPRYALRGQPPDLETTVILPESVFRETPPVVRPAG 2220
 Qy 2221 PGEAQPPEELARQRRHPELSQGEAVASVIIYRTLAGLPHNYDPPKRSRVPKRPINT 2280
 Db 2221 PGEAQPPEELARQRRHPELSQGEAVASVIIYRTLAGLPHNYDPPKRSRVPKRPINT 2280
 Qy 2281 PVVSIHVHDEELPRALDKPVTQPRLEETERTKPICVFNHNSILVSGTGWARGCE 2340
 Db 2281 PVVSIHVHDEELPRALDKPVTQPRLEETERTKPICVFNHNSILVSGTGWARGCE 2340
 Qy 2341 VVFNESHVSCQNHMTSFVILMDVSRRENGEILPLKLTYYVALGVTLAALLITPFFLTL 2400
 Db 2341 VVFNESHVSCQNHMTSFVILMDVSRRENGEILPLKLTYYVALGVTLAALLITPFFLTL 2400
 Qy 2401 LRILRSNOHGIRNLTAAAGLAOLVFLGNGADLPFACTVIAILLHFLYLCFTFWALL 2460
 Db 2401 LRILRSNOHGIRNLTAAAGLAOLVFLGNGADLPFACTVIAILLHFLYLCFTFWALL 2460
 Qy 2461 ALHLRYALTEVRDVTGPMRFYMLGWPAPITGLAVGLDPGYNPDFCWLIIYDTLI 2520
 Db 2461 ALHLRYALTEVRDVTGPMRFYMLGWPAPITGLAVGLDPGYNPDFCWLIIYDTLI 2520
 Qy 2521 WSPAGVAVAVMSVFLYILAAARASCAAOQGEKGPVSGLOPSFAVILLISATWLLAL 2580
 Db 2521 WSPAGVAVAVMSVFLYILAAARASCAAOQGEKGPVSGLOPSFAVILLISATWLLAL 2580
 Qy 2581 LSVNSDTLLFHYLPATCNCIOGPFIFLSYVVLKSVRKAALKACSRKSPDPALTKSTL 2640
 Db 2581 LSVNSDTLLFHYLPATCNCIOGPFIFLSYVVLKSVRKAALKACSRKSPDPALTKSTL 2640
 Qy 2641 TSSVNCPSVADGELIYQYDGSAGLSHSTRSGKSOPSYIPFLLESALNPGQPPGLG 2700
 Db 2641 TSSVNCPSVADGELIYQYDGSAGLSHSTRSGKSOPSYIPFLLESALNPGQPPGLG 2700
 Qy 2701 DPGSLFLEGQDQHDPTDSDLSLDDQSGSYASTHSDSEEEEEEAAFPGEQG 2760
 Db 2701 DPGSLFLEGQDQHDPTDSDLSLDDQSGSYASTHSDSEEEEEEAAFPGEQG 2760
 Qy 2761 WDSLGPGBAERLPLHSTPKDGGPGKAPWPGFGTTAKESSGNGAPAEERLRNGDALSR 2820
 Db 2761 WDSLGPGBAERLPLHSTPKDGGPGKAPWPGFGTTAKESSGNGAPAEERLRNGDALSR 2820
 Qy 2821 EGSILGPLGSSAQBHK-----GILKKKCLPTI 2847
 Db 2821 EGSILGPLGSSAQBHK-----GILKKKCLPTI 2880
 Qy 2848 SEKSILRLPLEOCTGSSRSSASESGCGPPPPRPPQSLQQLNGVWPIAMSIKAGTV 2907
 Db 2848 SEKSILRLPLEOCTGSSRSSASESGCGPPPPRPPQSLQQLNGVWPIAMSIKAGTV 2940
 Qy 2908 DEDSSGSEFLFFNPLH 2923
 Db 2941 DEDSSGSEFLFFNPLH 2956

RESULT 9

US-10-311-623-9
 ; Sequence 9, Application US/10311623
 ; Publication No. US20040023244A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.; GRIFFIN, Jennifer A.
 ; APPLICANT: KALLICK, Deborah A.; TRIBOULEY, Catherine M.
 ; APPLICANT: YUE, Henry; NGUYEN, Damiel B.
 ; APPLICANT: TANG, Y. Tom; LAL, Preeti G.
 ; APPLICANT: POLICKY, Jennifer L.; AZIMZAI, Valda
 ; APPLICANT: LU, Dying Aina M.; GRAUL, Richard C.

; APPLICANT: YAO, Monique G.; BURFORD, Neil
 ; APPLICANT: HAPALIA, April J. A.; BAUGHN, Mariah R.
 ; APPLICANT: BANDMAN, Olga; ARVIZU, Chandra S.
 ; APPLICANT: YANG, Junning; XU, Yuming
 ; APPLICANT: GANDHI, Ameena R.; WARREN, Bridget A.
 ; APPLICANT: DING, Li; SANJANWALA, Madhusudan M.
 ; APPLICANT: DUGGAN, Brendan M.; LU, Yan
 ; TITLE OF INVENTION: RECEPTORS
 ; FILE REFERENCE: PP-0793 USN
 ; CURRENT APPLICATION NUMBER: US/10/311.623
 ; CURRENT FILING DATE: 2002-12-17
 ; PRIOR APPLICATION NUMBER: US 01/19942
 ; PRIOR FILING DATE: 2001-06-21
 ; PRIOR APPLICATION NUMBER: US 60/214,027
 ; PRIOR FILING DATE: 2000-06-21
 ; PRIOR APPLICATION NUMBER: US 60/228,045
 ; PRIOR FILING DATE: 2000-08-25
 ; PRIOR APPLICATION NUMBER: US 60/255,104
 ; PRIOR FILING DATE: 2000-12-12
 ; NUMBER OF SEQ ID NOS: 24
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 9
 ; LENGTH: 2936
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; OTHER INFORMATION: Incyte ID No. US20040023244A1 6977010CD1
 US-10-311-623-9

Query Match 98.3%; Score 15279; DB 15; Length 2936;

Best Local Similarity 98.4%; Pred. No. 0;

Matches 2893; Conservative 2; Mismatches 14; Indels 32; Gaps 8;

Qy 1 MRSPTATGVPLPT-PPPLLLLLLLLLPPPLLDQGVGCRSLGSRGSSGACAPMWLCP 59
 Db 1 MRSPTATGVPLPTPPPPPLLLLLLLLLPPPLLDQGVGCRSLGSRGSSGACAPMWLCP 60
 Qy 60 SSASNLWLYTSRCDAGTGTCHLVPHHDGLRVWCPSEAHILPPPAPEGCPWSCRLLGI 119
 Db 61 SSASNLWLYTSRCDAGTGTCHLVPHHDGLRVWCPSEAHILPPPAPEGCPWSCRLLGI 120
 Qy 120 GGHLSPOQKLTLPBEHPCPKAPRLRCOSCKLAQAPGLRAGERSPEESLGGRRKENVNTAP 179
 Db 121 GGHLSPOQKLTLPBEHPCPKAPRLRCOSCKLAQAPGLRAGERSPEESLGGRRKENVNTAP 180
 Qy 180 QFPPSYQATVPENQAGTPVASLRAIDPDGEAGRLTYTMDALFDSRSNQFFSLDPVTG 239
 Db 181 QFPPSYQATVPENQAGTPVASLRAIDPDGEAGRLTYTMDALFDSRSNQFFSLDPVTG 240
 Qy 240 AVTTAEELDRKSTHVFRTAODHGMPPRSALATLTLATDTTNDHDPVPEQQYKESLR 299
 Db 241 AVTTAEELDRKSTHVFRTAODHGMPPRSALATLTLATDTTNDHDPVPEQQYKESLR 300
 Qy 300 ENLEVGVEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREE 359
 Db 301 ENLEVGVEVLTVRATDGDAPPNANILYRLLEGSGSGSEVFEIDPRSGVIRTRGPVDREE 360
 Qy 360 VESYQLTVEASDQGRDPGPRSTTTAAVFLSVBDDNNAPQFSEKRYVVOVREDVTPGAPVL 419
 Db 361 VESYQLTVEASDQGRDPGPRSTTTAAVFLSVBDDNNAPQFSEKRYVVOVREDVTPGAPVL 420
 Qy 420 RVTASDRDKGSNAVHVHYSIMSGNARGQFYLDQATGALDVUSPLDYETTKETVLRAODG 479
 Db 421 RVTASDRDKGSNAVHVHYSIMSGNARGQFYLDQATGALDVUSPLDYETTKETVLRAODG 480
 Qy 480 GRPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLYLHVQAIDADAGDNAR 539
 Db 481 GRPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLYLHVQAIDADAGDNAR 540
 Qy 540 LEYRLAGVGHDPFPTTINNGTGWISVAELDREEDVDFYSGVEARDHGTGTPALTASASVVT 599
 Db 541 LEYRLAGVGHDPFPTTINNGTGWISVAELDREEDVDFYSGVEARDHGTGTPALTASASVVT 600

Qy 600 VLDVNDNPTTQBEYTVRLNEDAAVGSVTVVSAVDRDAHSVITYQITSGNTNRFSIT 659
Db VLDVNDNPTTQBEYTVRLNEDAAVGSVTVVSAVDRDAHSVITYQITSGNTNRFSIT 660
Qy 660 SOSGGGLVSLALPLDYKLERQYVLAIVTASDGTRODTAQIVVNVTDTANTRPVFOSSHVTV 719
Db SOSGGGLVSLALPLDYKLERQYVLAIVTASDGTRODTAQIVVNVTDTANTRPVFOSSHVTV 720
Qy 720 NVNEDRPAGTTVVLISATDEDTGENARITYPMEBSIPQFRIDADTGAVTTOAELDYEDQV 779
Db NVNEDRPAGTTVVLISATDEDTGENARITYPMEBSIPQFRIDADTGAVTTOAELDYEDQV 780
Qy 780 SYTLAITARDNGIPQKSDTTTLEILVNDVNDNAQFLRDSYQGSYVEDVPPTSVLQISA 839
Db SYTLAITARDNGIPQKSDTTTLEILVNDVNDNAQFLRDSYQGSYVEDVPPTSVLQISA 840
Qy 840 TDRUSGLNGRVFYTFQGGDDGDFIVESTSGIVRTLRLRLDRENAOVAIVLRAVAVDKGMP 899
Db TDRUSGLNGRVFYTFQGGDDGDFIVESTSGIVRTLRLRLDRENAOVAIVLRAVAVDKGMP 900
Qy 900 PARTMEVTVTVLDVNDNPPVFEQDEFVFEENSPIGLAVARVATDTPDEGTNAQIMYQ 959
Db PARTMEVTVTVLDVNDNPPVFEQDEFVFEENSPIGLAVARVATDTPDEGTNAQIMYQ 960
Qy 960 IVEGNIPEVFOLDIPFSGELTALVDLYEDRPEYVLVIQATSAPLVSRAVTVHVRLLDRNDN 1019
Db IVEGNIPEVFOLDIPFSGELTALVDLYEDRPEYVLVIQATSAPLVSRAVTVHVRLLDRNDN 1020
Qy 1020 PPVLGNFEILFNNTVNRSSFPFGAIGRVAHPDDISDSLTYSFERGNELSVLNAST 1079
Db PPVLGNFEILFNNTVNRSSFPFGAIGRVAHPDDISDSLTYSFERGNELSVLNAST 1080
Qy 1080 GELKLSALDNNRPLEAIMSVLSDGVHVSVAQALRVITITDEMLTHSITRLLEDMSPE 1139
Db GELKLSALDNNRPLEAIMSVLSDGVHVSVAQALRVITITDEMLTHSITRLLEDMSPE 1140
Qy 1140 RFLSPLGLGLFQAAVANTLATPPDHVVFNVDRTDAPCGHILNVLSVGPPGCGGPPF 1199
Db RFLSPLGLGLFQAAVANTLATPPDHVVFNVDRTDAPCGHILNVLSVGPPGCGGPPF 1200
Qy 1200 LPSEDLERLYLNESSLTAISAQVLPDDONI CLREPCENVMRCVSVLRDSSAPFTASS 1259
Db LPSEDLERLYLNESSLTAISAQVLPDDONI CLREPCENVMRCVSVLRDSSAPFTASS 1260
Qy 1260 SVLFRP1HPVGG1RCRCPGPGTGDCYETEDVLCYSRCPGHRCSRREGGYTCLCRDGYT 1319
Db SVLFRP1HPVGG1RCRCPGPGTGDCYETEDVLCYSRCPGHRCSRREGGYTCLCRDGYT 1320
Qy 1320 GEHCEVSARSGRCTPGVCNKGCTCNLLVGGFKDCDPSGDFEKPYPYCVQVTRTSFPAHSFIT 1379
Db GEHCEVSARSGRCTPGVCNKGCTCNLLVGGFKDCDPSGDFEKPYPYCVQVTRTSFPAHSFIT 1380
Qy 1380 FRGLRQRFHFTALSPATKEDRGILLYNGRNEKHDFVLEVIQBOVQLTFPAGESITTV 1439
Db FRGLRQRFHFTALSPATKEDRGILLYNGRNEKHDFVLEVIQBOVQLTFPAGESITTV 1440
Qy 1440 SPFPVGGVSDQWHTVOLKYNNKPLLGOTGLPQGPSEOKVAVTVVDCGDTGVALRFGSVL 1499
Db SPFPVGGVSDQWHTVOLKYNNKPLLGOTGLPQGPSEOKVAVTVVDCGDTGVALRFGSVL 1500
Qy 1500 GNYSCAAQGTGGSKSLDLTGPLLGGVPLPESFPVRMQFVGMCRNLQVDSRHDMA 1559
Db GNYSCAAQGTGGSKSLDLTGPLLGGVPLPESFPVRMQFVGMCRNLQVDSRHDMA 1560
Qy 1560 DFIANNGTVPCCPAKQVCDNNTCHNGTQVNDAPSCCECP1GFGKSCAQEMANQHF 1619
Db DFIANNGTVPCCPAKQVCDNNTCHNGTQVNDAPSCCECP1GFGKSCAQEMANQHF 1620
Qy 1620 LGSSILVAWHGLSLPISQPWYLSLMPFRTRQADGVLLQAITRGRSTITTLQREGHVMLSVBG 1679
Db LGSSILVAWHGLSLPISQPWYLSLMPFRTRQADGVLLQAITRGRSTITTLQREGHVMLSVBG 1680

Qy 1680 TGLQASSIRLEPGRANDGDWHHAQIALGASGCPGHAIIISPDYGOQRAEGNIGPRLHGLHL 1739
Db TGLQASSIRLEPGRANDGDWHHAQIALGASGCPGHAIIISPDYGOQRAEGNIGPRLHGLHL 1740
Qy 1740 SNITVGIGIPGAGVARGFRGCLQGVRSVDTPEGVNSLDPHSHGSIINVEQCSLPDPCDS 1799
Db SNITVGIGIPGAGVARGFRGCLQGVRSVDTPEGVNSLDPHSHGSIINVEQCSLPDPCDS 1800
Qy 1800 NPCPANSYCSNDMWSYSCSDPGYVYDNCNTNVCDLNPCEHOSVCTRKPSPAHGYTCBCPP 1859
Db NPCPANSYCSNDMWSYSCSDPGYVYDNCNTNVCDLNPCEHOSVCTRKPSPAHGYTCBCPP 1860
Qy 1860 NYLGPYCETRIDOPCPRGWWGHPCTGCPNCNDVSKGPDPCNKTSGECKENHVRPPGSP 1919
Db NYLGPYCETRIDOPCPRGWWGHPCTGCPNCNDVSKGPDPCNKTSGECKENHVRPPGSP 1920
Qy 1920 TCLLCDCYPTGSLSRVCDPEDGQCPKPGVIGRQCDRCNDPNFAEVTNNGCE- ---VNYDS 1975
Db TCLLCDCYPTGSLSRVCDPEDGQCPKPGVIGRQCDRCNDPNFAEVTNNGCE- ---VNYDS 1978
Qy 1976 CPRAIEAGIWWPRT- ---FGLPAAAPCPKGSF- ---GTAVRHCDHRGWLPPNLFNC 2025
Db CPRAIEAGIWWPRT- ---FGLPAAAPCPKGSF- ---GTAVRHCDHRGWLPPNLFNC 2034
Qy 2026 TSITFSELKGAERLORNESGLDSRQOLALILRNATQHTAGYFGSDVKVAYQIATRL 2085
Db TSITFSELKGAERLORNESGLDSRQOLALILRNATQHTAGYFGSDVKVAYQIATRL 2094
Qy 2086 AHESTQSGFGLSATQDVHFTENLLRVGSALLDTANKRHWELIQOTEGGTAMLLQHYEAYA 2145
Db AHESTQSGFGLSATQDVHFTENLLRVGSALLDTANKRHWELIQOTEGGTAMLLQHYEAYA 2154
Qy 2146 SALAQNNRHTYLSPTTIVTNIVISVVRLDKGNFAGAKLPRYALRGQPPDLETTVILP 2205
Db SALAQNNRHTYLSPTTIVTNIVISVVRLDKGNFAGAKLPRYALRGQPPDLETTVILP 2214
Qy 2206 ESVPRETPVVRPAGGEAQEPPELARBORHPELSQGEAVASVIIYETLGLAGLPHNDP 2265
Db ESVPRETPVVRPAGGEAQEPPELARBORHPELSQGEAVASVIIYETLGLAGLPHNDP 2274
Qy 2266 DKSLRVPKRP1INTPVVISVHDDELLPRALDKPVTQVQFLLETERTKPICVFNWHS 2325
Db DKSLRVPKRP1INTPVVISVHDDELLPRALDKPVTQVQFLLETERTKPICVFNWHS 2334
Qy 2326 ILVSGTGGSARGCEVVRNESHVSCQCNHMTSPAVLMDVSRRE- ---NGBIL 2374
Db ILVSGTGGSARGCEVVRNESHVSCQCNHMTSPAVLMDVSRRE- ---NGBIL 2394
Qy 2375 PLKTLTVVAGVTLAALLLTFPFLTLRLILRSNOHGIRRNLTAAIGLAQLVFLGINQAD 2434
Db PLKTLTVVAGVTLAALLLTFPFLTLRLILRSNOHGIRRNLTAAIGLAQLVFLGINQAD 2454
Qy 2435 LPFACTVIAILLHPLYLCTFSWALLEALHYRALTEVRDVTGPMRFYVLMGWGPAPIT 2494
Db LPFACTVIAILLHPLYLCTFSWALLEALHYRALTEVRDVTGPMRFYVLMGWGPAPIT 2514
Qy 2495 GLAVGLDPEGVGNPDFCWLSTYDTL1WSFAGVAFVMSVFLYI1LAARASCAAQOGFE 2554
Db GLAVGLDPEGVGNPDFCWLSTYDTL1WSFAGVAFVMSVFLYI1LAARASCAAQOGFE 2574
Qy 2555 KKGVPVGLQSPFVALLLSATWLLALLSVNSDTHLLFHYLFATCNCIQOPPIFLSVVLSK 2614
Db KKGVPVGLQSPFVALLLSATWLLALLSVNSDTHLLFHYLFATCNCIQOPPIFLSVVLSK 2634
Qy 2615 EVRKALXACSRKPSPPALTTKSTLTSSVNCPSYADGRLYQPYGDSAGSLHSTRSGK 2674
Db EVRKALXACSRKPSPPALTTKSTLTSSVNCPSYADGRLYQPYGDSAGSLHSTRSGK 2694
Qy 2675 SQPSYIIFLLREESALNPGQPGGLDPSGLFLFEGQDQHQDDTSDSDLSLEDDQSGSY 2734
Db SQPSYIIFLLREESALNPGQPGGLDPSGLFLFEGQDQHQDDTSDSDLSLEDDQSGSY 2754
Qy 2735 ASTHSSDSSEEEEEEEAAPPGEQGWDSL1GPGAERLPLHSTPKDGGPGKAPWPGDF 2794

```
Db 2755 ASTHSSDEEEEEEAFPEQWDSLGLGAEERLPHSTPKDGGPGKAPWPGDF 2814
Qy 2795 GTTAKSSGNGAPEERLRENGDALSRGSLGPIPLGSSAOPHKGIKKKCLPTISEKSSLL 2854
Db 2815 GTTAKSSGNGAPEERLRENGDALSRGSLGPIPLGSSAOPHKGIKKKCLPTISEKSSLL 2874
Qy 2855 RLPLEQCTGSSRSSASGSGGPPPPPPRPSLOQLNGVMPAIIKAGTVDEDSGS 2914
Db 2875 RLPLEQCTGSSRSSASGSGGPPPPPPRPSLOQLNGVMPAIIKAGTVDEDSGS 2934
Qy 2915 E 2915
Db 2935 E 2935

RESULT 10
US-10-038-854-71
; Sequence 71, Application US/10038854
; Publication No. US20040022781A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Li, Li
; APPLICANT: Wolenc, Adam R
; APPLICANT: Vernet, Corine
; APPLICANT: Eisen, Andrew J
; APPLICANT: Liu, Xiaohong
; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spaderna, Steven K
; APPLICANT: Gorman, Linda
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Patturajan, Meera
; APPLICANT: Gusev, Vladimir Y
; APPLICANT: Gangolli, Esha A
; APPLICANT: Guo, Xiaojia S
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Casman, Stacie J
; APPLICANT: Boldog, Ferenc
; APPLICANT: Burgess, Catherine E
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gunther, Erik
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: MacDougall, John R
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-230
; CURRENT APPLICATION NUMBER: US/10/038,854
; CURRENT FILING DATE: 2003-01-22
; PRIOR APPLICATION NUMBER: 60/258,928
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 60/259,415
; PRIOR FILING DATE: 2001-01-02
; PRIOR APPLICATION NUMBER: 60/259,785
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 60/269,814
; PRIOR FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 60/279,832
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,833
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,863
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/283,889
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/284,447
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/286,683
; PRIOR FILING DATE: 2001-04-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
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; NUMBER OF SEQ ID NOS: 411
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 71
; LENGTH: 2920
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-038-854-71

Query Match 94.2%; Score 14647.5; DB 15; Length 2920;
Best Local Similarity 94.3%; Pred. No. 0;
Matches 2758; Conservative 54; Mismatches 107; Indels 5; Gaps 2;

Qy 1 MRSPATGVPLPTPPPLLLLLLLLLPPPLGCDQVGPCRSLSGRGSGSGACAPWGLCP 60
Db 1 MRTRAASAPLPTPLPLLLLLLLLLPPSPPLGCDQVGPCRSLSGRGSGSGACAPWGLCP 60
Qy 61 SASNLWLYTSRCRDAGTGLHVLPHHDGLRVWCPSESAHPIPPAPEGCPWSCRLLGIG 120
Db 61 SASNLWLYTSRCRESGIELTGLHVLPHHDGLRVWCPESGAHPIPPPSSEGCPCWSCRLLGIG 120
Qy 121 GHLSPOQKLTLPREHPCIKAPRLCQSCQLAQAQPLRAGERSPEESLGGRRKNVNTAPQ 180
Db 121 GHLSPOQKLTLPREHPCIKAPRLCQSCQLAQAQPLRAGERSPEESLGGRRKNVNTAPQ 180
Qy 181 FQPPSYQATVPENOPAGTPVASLRAIDPDEGEAGRLTYTMDALFDSRSNOFFSLSDPVTGA 240
Db 181 FQPPSYQATVPENOPAGTPVASLRAIDPDEGEAGRLTYTMDALFDSRSNHFFSLSDPITGV 240
Qy 241 VTTAEELDRKSTHVRVTAQDHGMPRRSALATLTILVTDNDHDPVFQOQYKESLRE 300
Db 241 VTTAEELDRKSTHVRVTAQDHGMPRRSALATLTILVTDNDHDPVFQOQYKESLRE 300
Qy 301 NLEVGVEYLVTRATDGDAPPNANILYRLGSGSGSPSEVFIDPRSGVITRGPVDRREV 360
Db 301 NLEVGVEYLVTRATDGDAPPNANILYRLGSGSGSPSEVFIDPRSGVITRGPVDRREV 360
Qy 361 ESYQLTVEASDQGRDPCPRSTTAAVFLSVEEDNDNAPQFSEKRVVQVREDVTPGAPVLR 420
Db 361 ESYQLTVEASDQGRDPCPRSTTAAVFLSVEEDNDNAPQFSEKRVVQVREDVTPGAPVLR 420
Qy 421 VTASDRDKGSNAVHYHSIMSGNARGQFYLDATQCALDVWSPLDYETTKETYLRLRAQDGG 480
Db 421 VTASDRDKGSNALVHYHSIMSGNARGQFYLDATQCALDVWSPLDYETTKETYLRLRAQDGG 480
Qy 481 RPPLSNVSGLVTVQVLDIND-NAPFVSTPQATVLESVPLGLVHLVQVDAIDADAGNAR 539
Db 481 RPPLSNVSGLVTVQVLDINDIRPFIFVSTPQATVLESVPLGLVHLVQVDAIDADAGNAR 540
Qy 540 LEYRLAGVGHDFPFTINNGTGWISVAEELDREEDVDFSGVEARDHGTPTALTASASVSVT 599
Db 541 LEYSLAGVGHDFPFTINNGTGWISVAEELDREEDVDFSGVEARDHGTPTALTASASVSVT 600
Qy 600 VLDVNDNNPTFTQPEYTVRLNEDAAVGTSVVTVSAVDRDAHSVITYQITSGNTRNRSF 659
Db 601 ILDVNDNNPTFTQPEYTVRLNEDAAVGTSVVTVSAVDRDAHSVITYQITSGNTRNRSF 660
Qy 660 SQSGGLVSLALPLDYKLEROYVLAVTASDGTRODTAQIVVNVTDANTHRVPFOSSHVTV 719
Db 661 SQSGGLVSLALPLDYKLEROYVLAVTASDGTRODTAQIVVNVTDANTHRVPFOSSHVTV 720
Qy 720 NVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTTOAELDYE 779
Db 721 NVNEDRPAGTTVVLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTTOAELDYE 780
Qy 780 SYTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISA 839
Db 781 SYTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQILA 840
Qy 840 TDRDGLNGRVFYTFQGGDDGDFIVESTSGIVRTLRLDRDNVAQVYLKAYAVDKMP 899
Db 841 TDRDGLNGRVFYTFQGGDDGDFIVESTSGIVRTLRLDRDNVAQVYLKAYAVDKMP 900
Qy 900 PARTPMEVTVTVLDVNDNPPVFDEDFVFEENSPIGLAVARVATATDPDEGTNAQIMYQ 959
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Db 901 PARTMEVTVTLQDGNPPVFEQDEPDVFEENSPIGLAVARVATDPDEGTNAQIMYQ 960
Qy IVEGNIPEVFOLDIFSGBELTALVDLYEDREYVVLVIQATSAPLVSRATVHVRLLDRND 1019
Db IVEGNIPEVFOLDIFSGBELTALVDLYEDREYVVLVIQATSAPLVSRATVHVRLLDRND 1020
Qy PPVLGNFEILFNNTVTRNSSFPGAGIRVPAHDPDISDSLTYSFERGNELSVLVLLNAST 1079
Db PPVLGNFEILFNNTVTRNSSFPGAGIRVPAHDPDISDSLTYSFERGNELSVLVLLNAST 1080
Qy GELKLSRALDNNRPLEAMSVLSDGVHVSVAQALRVTIITDMLTHSIITRLLEDMSPE 1139
Db GELKLSRALDNNRPLEAMSVLSDGVHVSVAQALRVTIITDMLTHSIITRLLEDMSPE 1140
Qy RFLSPLLLGLFIOAVAATLATPPDHVVFNVDQTDAPGCHILNVLSVGQPPGGGPPF 1199
Db RFLSPLLLGLFIOAVAATLATPPDHVVFNVDQTDAPGCHILNVLSVGQPPGGGPPF 1200
Qy LPSEDLOERLYLNRSLLTATISAQVRLPDDNICUREPCENTMRCVSVLRFDSAPFTASS 1259
Db LPSEDLOERLYLNRSLLTATISAQVRLPDDNICUREPCENTMRCVSVLRFDSAPFTASS 1260
Qy SVLFRPITHPVGLRCRCPGPTGDCETEVDLCYSRCPGPHGRCRSREGGYTCLCRDGYT 1319
Db SVLFRPITHPVGLRCRCPGPTGDCETEVDLCYSRCPGPHGRCRSREGGYTCLCRDGYT 1320
Qy GEHCEVSARSRCPTPGVKNGGTGNLLVGGFKDCPSGDPKEPKYCQVTTTRSPFAHSFIT 1379
Db GEHCEVSARSRCPTPGVKNGGTGNLLVGGFKDCPSGDPKEPKYCQVTTTRSPFAHSFIT 1380
Qy FRGLRQRFHTLALSPATKBERDGLLLYNGRNEKHDFALEVIQEOVLTPSAGESTTTV 1439
Db FRGLRQRFHTLALSPATKBERDGLLLYNGRNEKHDFALEVIQEOVLTPSAGESTTTV 1440
Qy SPFVPGVSDGQWHTVOLKYNKPLLGOTGLPQGPSBQKVAVTVDCDGTVALRFGSVL 1499
Db SPFVPGVSDGQWHTVOLKYNKPLLGOTGLPQGPSBQKVAVTVDCDGTVALRFGSVL 1500
Qy GNYSCAAQGTGGSKSLDLTGPLLGGVDPDPSPFVRMRQFVGCNMRNLQVDSRHIDMA 1559
Db GNYSCAAQGTGGSKSLDLTGPLLGGVDPDPSPFVRMRHFGVCMKDLQVDSRHIDMA 1560
Qy DFIANNGTVPGCAPKAVVQSNCTCHNGTGVNDWAFSCEPLFGFGKSCAQEMANPOHF 1619
Db DFIANNGTVPGCAPKAVVQSNCTCHNGTGVNDWAFSCEPLFGFGKSCAQEMANPOHF 1620
Qy LGSSLVAWHGLSLPI SQPWYLSLMFRTRQADGVLLQAITRGRSTITLQLRGHWMLSVEG 1679
Db LGSSLVAWHGLSLPI SQPWYLSLMFRTRQADGVLLQAITRGRSTITLQLRGHWMLSVEG 1680
Qy TGLQASSILRLEPGRANGDWHHAQALGASGGPQHAILSDYQOQRAEGNLGPRLLHGLH 1739
Db TGLQASSILRLEPGRANGDWHHAQALGASGGPQHAILSDYQOQRAEGNLGPRLLHGLH 1740
Qy SNIITVGGIPGAGVARGFRGLQGVRSVDPTEGVNSLDPDSHGESINVEQCSLPDPCDS 1799
Db SNIITVGGIPGAGVARGFRGLQGVRSVDPTEGVNSLDPDSHGESINVEQCSLPDPCDS 1800
Qy NPCPANSYCSNDWDSYSCDPPGYGDNCTNVCDLNCFEHSQSVCTRKPSPHGYTCPCPP 1859
Db NPCPANSYCSNDWDSYSCDPPGYGDNCTNVCDLNCFEHSQSVCTRKPSPHGYTCPCPP 1860
Qy NYLGPYCETRIDQPCPRGWGHPTCGPCNCDVSKGDPDCKNKTSGECHKENHYRPPGSP 1919
Db NYLGPYCETRIDQPCPRGWGHPTCGPCNCDVSKGDPDCKNKTSGECHKENHYRPPGSP 1920
Qy TCLLDCYPTGSLSRVCDPEDGQCPCKPGVIGRQCDRCDNPPFAEVTTNGCEVNYDSCFRA 1979
Db TCLLDCYPTGSLSRVCDPEDGQCPCKPGVIGRQCDRCDNPPFAEVTTNGCEVNYDSCFRA 1980
Qy IEAGIWWPRTRFGLPAAAPCPKSGFGTAVRHCDHRGWLPPNLFNCTSIITFSELKGFAER 2039

Db 1981 IEAGIWWPRTRFGLPAAAPCPKSGFGTAVRHCDHRGWLPPNLFNCTSVTSELKGFAER 2040
Qy LQRNESGLDGRSQQLALLERNATQHTAGYFGSDVKVAYQALATRLLAHESQORGFGLSAT 2099
Db LQRNESGLDGRSQQLALLERNATQHTAGYFGSDVKVAYQALATRLLAHESQORGFGLSAT 2100
Qy QDVHFTENLARVGSALLDITANKRWELIIOQTEGGTAMLLQHYEAYASALAQMRHTYLSLP 2159
Db QDVHFTENLARVGSALLDITANKRWELIIOQTEGGTAMLLQHYEAYASALAQMRHTYLSLP 2160
Qy FTIVTPNIVISVVRDLKGNFAGAKLPRYEALRGQPPDLETIVILPSPVPRPTEPPVVRPA 2219
Db FTIVTPNIVISVVRDLKGNFAGAKLPRYEALRGQPPDLETIVILPSPVPRPTEPPVVRPA 2220
Qy GPGEAQPEELARRQRHPHLSQGEAVASVIIYRTLAGLLPHNYDDPKRSRVRPKRPIIN 2279
Db GPGEAQPEELARRQRHPHLSQGEAVASVIIYRTLAGLLPHNYDDPKRSRVRPKRPIIN 2280
Qy TPVVISVVDHDEELLPRALDKPVTVOFRLLETERTKPICVFWNHSILVSGTGMSARGC 2339
Db TPVVISVVDHDEELLPRALDKPVTVOFRLLETERTKPICVFWNHSILVSGTGMSARGC 2340
Qy EVVFRNESHVSCQCNHMTSPAVLMDVSRRENGETILPLKLTLYVALGVTTLAALLTFFFLT 2399
Db EVVFRNESHVSCQCNHMTSPAVLMDVSRRENGETILPLKLTLYVALGVTTLAALLTFFFLT 2400
Qy LLRLIRSNQHGIRNLTAAALGALQVLLGINQADLPACTVIAILLHFLYLCTFSWALL 2459
Db LLRLIRSNQHGIRNLTAAALGALQVLLGINQADLPACTVIAILLHFLYLCTFSWALL 2460
Qy EALHLYALTEVRDVTGPMRFYFMYLGMGVPAPITGLAVGLDPGEGYGNPDFCMLSIVDTL 2519
Db EALHLYALTEVRDVTGPMRFYFMYLGMGVPAPITGLAVGLDPGEGYGNPDFCMLSIVDTL 2520
Qy IWSFAGVAVAVSMVSVFLYIILAAASCAAQOQKPKGVSGLOPSPFAVLLLSATWLLA 2579
Db IWSFAGVAVAVSMVSVFLYIILAAASCAAQOQKPKGVSGLOPSPFAVLLLSATWLLA 2580
Qy LLSVNSDTLLFHYLFAACNCVQGPFI FLSYVVLKSKEVRKALKACSRKSPDPALTTKST 2639
Db LLSVNSDTLLFHYLFAACNCVQGPFI FLSYVVLKSKEVRKALKACSRKSPDPALTTKST 2640
Qy LTSYNCPSPYADGRLYQPYGDSAGSLHSRSGKSQSPSYIPLLRBSALNPGQPPGL 2699
Db LTSYNCPSPYADGRLYQPYGDSAGSLHSRSGKSQSPSYIPLLRBSALNPGQPPGL 2700
Qy GPGSLPLEGQDQOHDPTDSDLSLEDDQSGSVASTHSSDSSEEEEEEEEAAPGCEQ 2759
Db GPGSLPLEGQDQOHDPTDSDLSLEDDQSGSVASTHSSDSSEEEEEEEEAAPGCEQ 2756
Qy GWDSCLLPGGAERLPLHSTPKDGGPGKAPWPGDFGTTAKESGNGGAPPEERLRENGDAL 2819
Db GWDSCLLPGGAERLPLHSTPKDGGPGKAPWPGDFGTTAKESGNGGAPPEERLRENGDAL 2816
Qy REGSLGPLPOSSAQPHGILKKKCLPTISEKSSLLRPLEOCTGSSRSGSSASBSRGPPGL 2879
Db REGSLGPLPOSSAQPHGILKKKCLPTISEKSSLLRPLEOCTGSSRSGSSASBSRGPPGL 2876
Qy PRPPPROSLOEOLNGVMPVAMSIKAGTVDRDSSGSEFLFFNFHLH 2923
Db PRPPPROSLOEOLNGVMPVAMSIKAGTVDRDSSGSEFLFFNFHLH 2920

RESULT 11

US-10-276-774-1774

; Sequence, 1774, Application US/10276774

; Publication No. US20040053245A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc.

; APPLICANT: Tang, Y. Tom et al

; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides

; FILE REFERENCE: 21272-030

; CURRENT APPLICATION NUMBER: US/10/276,774

; CURRENT FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 09/560,875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 09/496,914
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 2700
; SOFTWARE: Custom
; SEQ ID NO 1774
; LENGTH: 2560
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)-(2560)
; OTHER INFORMATION: Xaa = any amino acid or nothing
US-10-276-774-1774

Query Match 86.2%; Score 13406; DB 15; Length 2560;
Best Local Similarity 99.3%; Pred. No. 0;
Matches 2531; Conservative 1; Mismatches 12; Indels 4; Gaps 3;

Qy	380	STTAAVFLSVEDDNDNAPQSEKRYVYVQVREDVTPGAPVLRVTASDRDKGSNAVHYISIM	439
Db	13	STTAAVFLSVEDDNDNAPQSEKRYVYVQVREDVTPGAPVLRVTASDRDKGSNAVHYISIM	72
Qy	440	SGNARGOYLDAQTGALDVVSPLDYETTKYETTLRVAQDGGRPPLSNVSGLVTVQVLDIN	499
Db	73	SGNARGOYLDAQTGALDVVSPLDYETTKYETTLRVAQDGGRPPLSNVSGLVTVQVLDIN	132
Qy	500	DNAPIFVSTPFOATVLESPLGLVLRVQALDADAGDNARLEVRAGVGHDPFFINNGT	559
Db	133	DNAPIFVSTPFOATVLESPLGLVLRVQALDADAGDNARLEVRAGVGHDPFFINNGT	192
Qy	560	GWISVAEALDREBVDYFSGVEARDHGTPALFASASVTVLDVNDNNPTFTQPEYTVRL	619
Db	193	GWISVAEALDREBVDYFSGVEARDHGTPALFASASVTVLDVNDNNPTFTQPEYTVRL	252
Qy	620	NEDAAVGTSVVTSVAVDRDAHSVITQITSGNTRNRPFSITSGGGLVSLALPLDYKLER	679
Db	253	NEDAAVGTSVVTSVAVDRDAHSVITQITSGNTRNRPFSITSGGGLVSLALPLDYKLER	312
Qy	680	QYVLAVTASDGTQDTAQIIVNVTDANTHRPVQSSHYTVNVEDRPAGTIVVLISATDE	739
Db	313	QYVLAVTASDGTQDTAQIIVNVTDANTHRPVQSSHYTVNVEDRPAGTIVVLISATDE	372
Qy	740	DTGENARITYFMEDSIPQFRIDATGAVTTQAELEDYEDQVSYTLATARDNGIPQKSDTT	799
Db	373	DTGENARITYFMEDSIPQFRIDATGAVTTQAELEDYEDQVSYTLATARDNGIPQKSDTT	432
Qy	800	YLBILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISATDRDGLNGRVFTTQGGDD	859
Db	433	YLBILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISATDRDGLNGRVFTTQGGDD	492
Qy	860	GDGDFIVESTSGIVRTLRLDRDRENAQYVLRAYAVDKGMPPARTPMEVTVTVLDVNDNPP	919
Db	493	GDGDFIVESTSGIVRTLRLDRDRENAQYVLRAYAVDKGMPPARTPMEVTVTVLDVNDNPP	552
Qy	920	VFEQDEPDPVFEENSPIGLAVARVTATDPDEGTNAQIMTYQIVEGNIPEVFQLDIFSGELT	979
Db	553	VFEQDEPDPVFEENSPIGLAVARVTATDPDEGTNAQIMTYQIVEGNIPEVFQLDIFSGELT	612
Qy	980	ALVDLDYEDRPEVVLVQATSAPLVSRATVHVHLLDRDNDNPPVLGNFETILFNNTVNRSS	1039
Db	613	ALVDLDYEDRPEVVLVQATSAPLVSRATVHVHLLDRDNDNPPVLGNFETILFNNTVNRSS	672
Qy	1040	SFPGGALGRVPAHDPIQSDSLTYSFERGNELSVLVLLNASTGBELKLSRALDNNRPLEAIMS	1099
Db	673	SFPGGALGRVPAHDPIQSDSLTYSFERGNELSVLVLLNASTGBELKLSRALDNNRPLEAIMS	732
Qy	1100	VLVSDGVSHVTAQALRVTTITDEMTHSITLRLDMSPERFLSPILLGLFIOAVAAATLAT	1159
Db	733	VLVSDGVSHVTAQALRVTTITDEMTHSITLRLDMSPERFLSPILLGLFIOAVAAATLAT	792

Qy	1160	PPDHVVVFVQRTDAPGCHILNVSLSVGQPPGPGGPPPLPSEDLOERLYLNRLSLTAT	1219
Db	793	PPDHVVVFVQRTDAPGCHILNVSLSVGQPPGPGGPPPLPSEDLOERLYLNRLSLTAT	852
Qy	1220	SAQRVLFPDDNICLREPCENYMRCSVLRFPDSSAPFIASSSVLFRPIHPVGGRLRCRCPG	1279
Db	853	SAQRVLFPDDNICLREPCENYMRCSVLRFPDSSAPFIASSSVLFRPIHPVGGRLRCRCPG	912
Qy	1280	FTGDYCETEVDLCVSRPCGPHGRCSRREGGYTCLCRDGYTGEHCEVSARSGRCTPGVCKN	1339
Db	913	FTGDYCETEVDLCVSRPCGPHGRCSRREGGYTCLCRDGYTGEHCEVSARSGRCTPGVCKN	972
Qy	1340	GGTCVNLVVGFKDCPSGDFPEKPYCOVTRSPPAHSFIFRGLRQRFHFTLALSATKE	1399
Db	973	GGTCVNLVVGFKDCPSGDFPEKPYCOVTRSPPAHSFIFRGLRQRFHFTLALSATKE	1032
Qy	1400	RDGGLLYNGRPFNEKHDFVLEVIQEQVQLTFSAGESITTVSPFVPGSVSDGQWHTVOLKY	1459
Db	1033	RDGGLLYNGRPFNEKHDFVLEVIQEQVQLTFSAGESITTVSPFVPGSVSDGQWHTVOLKY	1092
Qy	1460	YNKELLGOTGLPOGSPSEKQVAVVTVDCDGTGVALRFGSVLGNYSCAAQGTGGSGKSLDL	1519
Db	1093	YNKELLGOTGLPOGSPSEKQVAVVTVDCDGTGVALRFGSVLGNYSCAAQGTGGSGKSLDL	1152
Qy	1520	TGPLLLGGVPDLPESPFVRMRQFVGCNRNLQVDSRHIDMADFIANNGTVPGCCPAKKNVCD	1579
Db	1153	TGPLLLGGVPDLPESPFVRMRQFVGCNRNLQVDSRHIDMADFIANNGTVPGCCPAKKNVCD	1212
Qy	1580	SNTCHNGGTVCNWDAPFSCPCPLFGGKSCAQEMANPQHFLGSSLVAWHGLSLPIQPMY	1639
Db	1213	SNTCHNGGTVCNWDAPFSCPCPLFGGKSCAQEMANPQHFLGSSLVAWHGLSLPIQPMY	1272
Qy	1640	LSLMFRTRQADGVLLQAITRGRSTITLQIREGHVMSVEGTGLQASSLRLEPGRANDGDW	1699
Db	1273	LSLMFRTRQADGVLLQAITRGRSTITLQIREGHVMSVEGTGLQASSLRLEPGRANDGDW	1332
Qy	1700	HHAQLALCAGGGPHAILSPDYGOORAEGLPRLHGLHLSNITVGGIPGAPGAVARGFR	1759
Db	1333	HHAQLALCAGGGPHAILSPDYGOORAEGLPRLHGLHLSNITVGGIPGAPGAVARGFR	1392
Qy	1760	GCLQGVRSVDTPEGVNSLDPESHGESINVEQCSLPDPDCSNPCPANSYCSNDWDSYSCSC	1819
Db	1393	GCLQGVRSVDTPEGVNSLDPESHGESINVEQCSLPDPDCSNPCPANSYCSNDWDSYSCSC	1452
Qy	1820	DPGYGDNCTNVCNLDNCEHQSVCTRKPSAPHGYTCECPNYLGPYCETRIDQPCRGWW	1879
Db	1453	DPGYGDNCTNVCNLDNCEHQSVCTRKPSAPHGYTCECPNYLGPYCETRIDQPCRGWW	1512
Qy	1880	GHPTCGPCNCDVSKGPDPCNKTSGECHKENHYRPPGSPCLLDCDCTPTGSLSRVCDPE	1939
Db	1513	GHPTCGPCNCDVSKGPDPCNKTSGECHKENHYRPPGSPCLLDCDCTPTGSLSRVCDPE	1572
Qy	1940	DGQCPCKPGVIGROCDRCDNPPFAEVTTNGCEVNYDSCPAIRAGIWWPRTFGLPAAAPC	1999
Db	1573	DGQCPCKPGVIGROCDRCDNPPFAEVTTNGCEVNYDSCPAIRAGIWWPRTFGLPAAAPC	1632
Qy	2000	PKGSFGTAVRHCDHRGWLPPNLFNCTSIITFSELKGAERLQRNESGLDSGRSQALLL	2059
Db	1633	PKGSFGTAVRHCDHRGWLPPNLFNCTSIITFSELKGAERLQRNESGLDSGRSQALLL	1692
Qy	2060	RNATQHTAGYFGSDVKVAYQALATLLAHESQTORGFLSATQDVHFTENILRVGSALLDTA	2119
Db	1693	RNATQHTAGYFGSDVKVAYQALATLLAHESQTORGFLSATQDVHFTENILRVGSALLDTA	1752
Qy	2120	NKRHWELIQOTEGGTAMLLQHYEAYASALAQNMHTYLSPTTIVTPNIVISVRLDKGNF	2179
Db	1753	NKRHWELIQOTEGGTAMLLQHYEAYASALAQNMHTYLSPTTIVTPNIVISVRLDKGNF	1812
Qy	2180	AGAKLPRYEALRGQPPDLETTVILPESVREPPVVRPAGPGEAQPEELARRQRHPE	2239
Db	1813	AGAKLPRYEALRGQPPDLETTVILPESVREPPVVRPAGPGEAQPEELARRQRHPE	1872
Qy	2240	LSQGEAVASVIIYRTLAGLLPHNYDDPKRSLRVKRPPIINTPVVSVISVHDDDELLPRALD	2299

Db	1873	LSQGEAVASVIIYKTLA	GLPHNYDPKRS	LRVPEKRIINTPVVSI	SVHDEELPRALD	1932
Qy	2300	KPVTVOFRLLETEERTKPI	CVFVWNHNSILVSGT	CGWSARGCEVVF	RNESHVSCCQNHMTSF	2359
Db	1933	KPVTVOFRLLETEERTKPI	CVFVWNHNSILVSGT	CGWSARGCEVVF	RNESHVSCCQNHMTSF	1992
Qy	2360	AVLMDVSRRENGEILPLK	TLTYVALGVTLAALL	TLFFFLTLRLIR	LSNQHGIRRNLTAAAL	2419
Db	1993	AVLMDVSRRENGEILPLK	TLTYVALGVTLAALL	TLFFFLTLRLIR	LSNQHGIRRNLTAAAL	2052
Qy	2420	GLAQLVLLGINQADLP	PACTVTAILLHFYLCT	FSWALLAEALHLY	ALTEVDRDVTGPM	2479
Db	2053	GLAQLVLLGINQADLP	PACTVTAILLHFYLCT	FSWALLAEALHLY	ALTEVDRDVTGPM	2112
Qy	2480	RFYMYLGMGWPAFITGL	AVGLDPEGYNPDFC	WLMSIYDTL	ILWSFAGPVAFAVMSVFLYI	2539
Db	2113	RFYMYLGMGWPAFITGL	AVGLDPEGYNPDFC	WLMSIYDTL	ILWSFAGPVAFAVMSVFLYI	2172
Qy	2540	LAARASCAAO	RQGEKKGPVSGLO	QSPAVILLISAT	WLALLSVNSDTLLFHYLFATCNC	2599
Db	2173	LAARASCAAO	RQGEKKGPVSGLO	QSPAVILLISAT	WLALLSVNSDTLLFHYLFATCNC	2232
Qy	2600	IQGPPIFLSVVWLS	KEYRKALKACSK	PKSPDPALTTK	STLTSYNCPSPYADGRLYOPY	2659
Db	2233	IQGPPIFLSVVWLS	KEYRKALKACSK	PKSPDPALTTK	STLTSYNCPSPYADGRLYOPY	2292
Qy	2660	GDGAGSLHST	RSRGKSPSYI	PFLLRREESALN	PGQPPGLGD--PGSLFLBEG--	QDOQHDP 2716
Db	2293	GDGAGSLHST	RSRGKSPSYI	PFLLRREESALN	PGQPPGLGGIPGRCLCFGRFQDOQHS	2352
Qy	2717	DT--DSGSDLSLEDD	QSGSYASTHSS	DSSEEEEEEEA	APPGQGWDSLGLPGAEARLPLH	2775
Db	2353	XTRDFDSDLSEDD	QSGSYASTHSS	DSSEEEEEEEA	APPGQGWDSLGLPGAEARLPLH	2412
Qy	2776	STPKDGGPGKAPW	PGDFGTAKES	SGNCAPEERL	RENGDALSRGSLGPLPGSSAOPH	2835
Db	2413	STPKDGGPGKAPW	PGDFGTAKES	SGNCAPEERL	RENGDALSRGSLGPLPGSSAOPH	2472
Qy	2836	KGILKKKCLPTI	SEKSSLLRLPLE	QCCTGSSRGSS	ASBEGSRGGPPPPPPRQSIQEOQLNGV	2895
Db	2473	KGILKKKCLPTI	SEKSSLLRLPLE	QCCTGSSRGSS	ASBEGSRGGPPPPPPRQSIQEOQLNGV	2532
Qy	2896	MPITAMSIKACTV	DEDDSGSFLF	NFNFLH	2923	
Db	2533	MPITAMSIKACTV	DEDDSGSFLF	NFNFLH	2560	

RESULT 12

US-09-737-149-25
; Sequence 25, Application US/09737149
; Patent No. US20020077466A1
; GENERAL INFORMATION:
; APPLICANT: Spaderna, Steven K
; APPLICANT: Quinn, Kerry E.
; APPLICANT: Shimkets, Richard A.
; APPLICANT: Muralidhara, Padigaru
; APPLICANT: Spytek, Kimberly A.
; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-620 CIP
; CURRENT APPLICATION NUMBER: US/09/737,149
; CURRENT FILING DATE: 2001-06-15
; PRIOR APPLICATION NUMBER: 60/170,564
; PRIOR FILING DATE: 1999-12-14
; PRIOR APPLICATION NUMBER: 60/173,165
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: 60/173,362
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: 60/173,544
; PRIOR FILING DATE: 1999-12-29
; PRIOR APPLICATION NUMBER: 60/174,404
; PRIOR FILING DATE: 2000-01-04
; PRIOR APPLICATION NUMBER: 60/174,962

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; PRIOR FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: 60/223,929
; PRIOR FILING DATE: 2000-08-09
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 25
; LENGTH: 3034
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-737-149-25

Query Match          57.7%; Score 8974.5; DB 9; Length 3034;
Best Local Similarity 57.3%; Pred. No. 0;
Matches 1730; Conservative 429; Mismatches 648; Indels 210; Gaps 39;

Qy      1 MRS PATGVP LPTPPPLLLLLLLLLLPPPLGLGDVGPCRSILSGSRGRGS-----S 48
Db      124 LRSARGAELRSP-----AVRSVPLGLDAL--CFPAAGGGAASLTSLVLEAITNPPA 172

Qy      49 GACAPM-----GWL C--PSSASNLWLYTSR CRDAGTETLGHLPVPHDGLRVWCPSE 99
Db      173 CSCPPVAGTCRRGPICLRPGSAELRLV CALGRAAGA-----VWV-----213

Qy      100 HILPAPAECPCWSCRLLGIGGHS PQGKUTLPEEHPCLKAPRLRCOSCKLAQAPGLRAG 159
Db      214 -----ELV I QATSGTSPSEPSV-SPSL-----LNLSP-----RAG 243

Qy      160 --ERSPEESIGRRKRNVNTAPOPFPSPYQATVPENOPAGCTPVASLRAIDPDEGEAGRL 217
Db      244 VWRSS-----RRGTGSSTSPPFPSPYQVSPENEPAGTAVIELRAHDPEDEGAGRLS 296

Qy      218 YTM DALFDSRNOFFSLDPVTGATTTAEELDRETKSTHPRVTAQDHGMRRRSALATLTI 277
Db      297 YQMEALFDSRNGYFLIDAATGAVTTARS LDRET KOTHVLKVSADVHGS PRSSAATVLT 356

Qy      278 LVITDTHDHPVFPQOBYKESLRNLGVGYEVLTVRATDGDAPPNANILYLLRSGSGSPS 337
Db      357 TVSDTNDHSEVFPQSYRERIRENLGVGYEVLTVRATDGDAPNANMRVYLLGAGG---413

Qy      338 EVEIDPRSGVITRGPVDR EEVSQLTVEASDQGRDGPGRSTTAAVFLVSDEDDNDNAP 397
Db      414 -VEIDARSGVITRAVVDREEAEEVQLLYEANDQGNPGPLASATVHVIVEDENDNYP 472

Qy      398 QFSEKRYVVOVRBDVTPGAPVLRTASDRDKGSNAVVHYISMSGNARGQFYLDAQTGALD 457
Db      473 QFSEKRYVVOVPEDVAVNTAVLRVQATDRDQGNAAIHYISVGNLKGQFYLHLSGSLD 532

Qy      458 VVSPLYETTKETYLVRADQGRGPLSNVSGLVTVQVLDINDNAPIFVGTPTQATVLES 517
Db      533 VINPLDFEAIREYTLRIKAQDGRPRPLINSSGLVSQVLDVNDNAPIFVSSPFAA VLEN 592

Qy      518 VPLGYLVLVHQAADADAGDNARLEYRLAGVH-----DFFTINNGTG 560
Db      593 VPLGHSVLH IQAADADAGENARLOYRLVDTASTIVGSSVDSENPA SAPDPFOIHNSG 652

Qy      561 WISVAAE LDR EEVDFFSYFGVEARDHGTPALTASASVTVLDVNDNNPTFQPEYTVRLN 620
Db      653 WITVCAELDREVEHYSFGEAVDHGSPAMSSASVSIITVLDVNDNDPMFTQPVYELRLN 712

Qy      621 EDAAVGTSVVTSAVDRDHAHSVIYQITSGTNRNRFISITSQSGGLVSLALPLDYKLERQ 680
Db      713 EDAAVGSSVLTLRARDR DANSVIYQLTGCTGNRNPALSSQSGGLITLALPLDYKBERQ 772

Qy      681 YVLAVTASDGTRODTAQI VVNVITDANTHRPVFOSSHVTNVNEDRPAGTTVLLSATDDE 740
Db      773 YVLAVTASDGTSHSTAQVINVITDANTHRPVFOSSHVTNVNEDRPAGTTVLLSATDDE 832

Qy      741 TGENARITTFMEDSIPOFRIDATGAVTTQAE L DYE DQVSYTLAITARDNGI PQKSDTTY 800
Db      833 TGENARITTVLEDPVQFRIDPDGTGIYTMWELDYE DQAA YTLAITAQDNGI PQKSDTTS 892

Qy      801 LEILVNDVNDNAPQFLRDSYQGSVYEDVPPTFVSLQISATDRDSGLNGRVYFTTQGGDGG 860

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Db 893 LEILLDANDNAPRLRDFYQGSVFEDAPPSTSVLQVSATDRSDGPNRLLYTFQGGDDG 952
Qy 861 DGDFIVESTSGIVRTLRRLDRNVAQVYLAYAVDKMP-PARTMEVTVTVLVDNDNP 919
Db 953 DGBFYBPTSGVIRTQRLDRNVAVYNLAWADRGSPNPLSASVGIQVSVLDINDNP 1012
Qy 920 VFQDEDFVFEENSPITGLAVARVATDPDEGTNAQIMYOIVEGNIPEVFOIDIFSGLT 979
Db 1013 VFEKDELELVFEENSPVGSVVARIRANDPDEGPNQIIQIIVEGNEVEVQDLDSGLR 1072
Qy 980 ALVDLDYEDPEYVLYIQAATSAPLVSRAIVHRLDRNDNPVLGNPEILLFNNTVNRSS 1039
Db 1073 ALVELDEVARDYMVLVQAATSAPLVSRAIVHRLDRNDNPPELDPFOILLFNNTVNRSS 1132
Qy 1040 SFGGAIGRVPAHDPDIDSLSITVSFERGNELSVLINASTGELKLSALDNNRPLEAMS 1099
Db 1133 SFGSGVIGRPAHDPDIDSLSITVFLQGNELSLLLLPATGELQLSRDLNDRPLEAME 1192
Qy 1100 VLVSDDGSHVSTAOCALRVITITDEMLTHSITRLDEMSPERFLSPLGLFTQAAATLAT 1159
Db 1193 VVSDDGSHVSTAOCALRVITITDDMLTNSITVRLNNSQEFSLPUSLVEGVATVLS 1252
Qy 1160 PPDHVVFNQVORDTAPGCHILNLSVSGPPGCGGPPFLPSBGLQERLYANRSLTAT 1219
Db 1253 TKDDIFVFNQNDTV--SSNINLVTSALLPGGTG--RFPFSEDLQEQIYLNARTLLTI 1309
Qy 1220 SAQRVLFPDDNICLREPCENYMCVSVLRFDSSAPFIASSVLPFRPHVGGRLCRCPG 1279
Db 1310 SAQRVLFPDDNICLREPCENYMCVSVLRFDSSAPFISSTVLPFRPHVGGRLCRCPG 1369
Qy 1280 FTGDYCYETEVDLCYRPGPHGRCSRREGGYTCCLRDGYTGEHCVEASRGCTPGVCKN 1339
Db 1370 FTGDYCYETEVDLCYRPGPHGRCSRREGGYTCCEFDFTGEHCQVNRSGRCASGVCKN 1429
Qy 1340 GGTGNVLLVGGFKDCDPSGDFEPEYQVTRTSFPAHSFIFRGLRQRFHFTLALSFATKE 1399
Db 1430 GGTGNVLLVGGFKDCDPSGDFEPEYQVTRTSFPAHSFIFRGLRQRFHFTVSLAFATQD 1489
Qy 1400 RDGLLLYNGRPNFKHDFVLEVOBQVLTFSAGESITTVSPFPVGGVSDGQWHTVOLKY 1459
Db 1490 RNALLLYNGRPNFKHDFVLEVOBQVLTFSAGESITTVTPQVPGVSDGRWHSLVQY 1549
Qy 1460 YNKPGLGOTGLPOGSPQKAVVTVDCDGTVALRFGSLGNTYSCAAQGTQGSKSLDL 1519
Db 1550 YNKPENIHLGHPGFGSEKAVVTVDDCAVAVHFGSYGNTYSCAAQGTQGSKSLDL 1609
Qy 1520 TGPLLLGGVDPDLPESFVRMRQFYGCNRLQVDSRHIDMADFIANNGTVPFCPAKNVCD 1579
Db 1610 TGPLLLGGVDPDLPESFVRMRQFYGCNRLSIDKRIVDMAAFIANNGTAGCASQRNFC 1669
Qy 1580 SNTCHNGGTQVNDWDAFSCGCPGFGKSCAQAEMANPOHFLGSLVAVHGLSLPISOPWY 1639
Db 1670 GTSCQNGGTQVNRWNTYLCPLRFGKNCBQAMPHPQRFTEGVSVLWSDLDITISVPWY 1729
Qy 1640 LSLMFRTRQADGVLLQAITRGRSTITLQRBGHVMLSVEGTGLQASSLRLEPGRANDGW 1699
Db 1730 LGLMFRTRKEDGVLMETAGTSSRLHQLINSYIRFEVSGPSPDVASNQLSKSRITDGGW 1789
Qy 1700 HHAQALGASGGPH-----AIIISFDYQOORAEGLNGLRHLGLSLNITVGGIPGAGV 1754
Db 1790 HHLIIEL-RSAKEKDIKYLAVMTLDYGMDSQTVQIGNQLPGLKWRITVIGGVTEKVS 1848
Qy 1755 ARGFRGLQGVRSVSDTPEGVNSLDPDSHGESINVOGCSLDPDPCSNPCPANSYCSNDWDS 1814
Db 1849 RHGFRGCMQGVRMGETSTNIATLNMNDALKVRVXGDCDVEDPCASSPCPPHRCRDWDS 1908
Qy 1815 YSCSCDPGYGDNCTNVCLNPNCRHQSVCTRKPSAPHGYTCECPNVLGYPCETRIDQPC 1874
Db 1909 YSCICDRGYFGKCVDACLNPNCKHVAACVRSFNTPRGYSCECGPGHYGYCEKNVDLPC 1968
Qy 1875 PRGWWHPTCGPCNCDYSGKFPDPCNKTSGECHKENHPRPPGSPFTCLLCDCYPTGSLR 1934
Db 1969 PKGWWGNFVCGFCHCAVSGQGFDPDCNKTNGQCCKENYKPPAQDACLPCDCPFGHSHR 2028

Qy 1935 VCDPEDGCPCKPGVILGRQCDRCNDNPPFAKVTNTNGCEVNYDSCPRATEAGIWMPTREGLP 1994
Db 2029 ACMDMTGQCCACKPEVIGRQCNRCNDNPPFAEVTSLUGCEVINGCPRAFEAGIWMPTKFGQP 2088
Qy 1995 AAAPCPKSGFGTAVRHCDHRGMLPPNLFNCTITFSELKGFABRLQRNBSGLDSGRSQ 2054
Db 2089 AAVPCPKSGVGNVHRHCSGEGKMLPELFNCTSGSFVDLKALNEKLNRETMRDGNLSR 2148
Qy 2055 LALLLNATQHTAGYFGSDVKVAYQALATRLLAHSTORGFLSATQDVHFTENLRVGS 2114
Db 2149 LAKALRNATQNGSTLFGNDVRTAYQALLARLQHSRQGGFDLAATREANPHEDVHVTGSA 2208
Qy 2115 LLDTANKRHWELIQQTEGGTAWLLOHYEAVASALQNMHTYLSPTFVTPNTVISVVR 2174
Db 2209 LLAPEATASWEQIQRSEAGAAQLRHFEAFVSNVARNVKTYLRFPFVITVANMILAVDIF 2268
Qy 2175 DKNFAGAKLPRYALRGEQPPDLETTVILPESVF-----RETPPVVR-----PAGE 2221
Db 2269 DKLNFTGAQVPRPEDIQEELPRELESSVSPADTFKPEKKEGVPVVRLTNRRTTPTLTAQ 2328
Qy 2222 GEAOPEELARRORRHPPELSQGEAVASVIIYRTLGLLPHNYDDPKKSLRVPKRPIINTP 2281
Db 2329 EPRARETSSRRRRHPDEFGQFAVALVWYRTLGQLLPEHYDPDRSLRPNRPVINTP 2388
Qy 2282 VVSISVHDDDEELPRALDKPVTQVFRILEETERTKPICVFNHNSILVSGTGGWSARGCEV 2341
Db 2389 VVSAMYSBETPUSLQRPILVEFSLLETEERSKPCVFNHNSLDTGGTGGWSAKGCEL 2448
Qy 2342 VFNESHVSQCNMHTSFVLMDSVRRNGEILPLKTLTYVALGVTIAALLLFFFTLL 2401
Db 2449 LSNRTHVTCQCSHSCASCAVLMDISREHGEVLPLKIIITYAALSLSLALLVAVFLSLV 2508
Qy 2402 RIILRSNOHGIIRNLTAALGAQLVFLGINQADLPFACTVIAILLHPLYICTSWALLEA 2461
Db 2509 RILRSNLHSIHKNLIALALFESQLIFMWGINQENPFCTVVALILLHYVSGTFAWTLVEN 2568
Qy 2462 LHLRYALTEVRDVTNTPMREYVYMLGWGPVAFITGLAVGLDPEGVNDPCWLSLYDTLIW 2521
Db 2569 LHYRMLTEVRNIDTGMREYHVVGWGPVAFITGLAVGLDPOGYGNDPCWLSLQDTLIW 2628
Qy 2522 SFAGPVAFVAVSMGVFIYLAARASCAARQGFKEKGVSGLOPSFAVLLLSLTLALL 2581
Db 2629 SFAGPVGTVIIINTVIFVLSAKVSCQKHHYERKGVVSMRTAFLLLLVATLWLLGLL 2688
Qy 2582 SVNSDILLFHYLATNCIOGPFIFLSYVVLSEVRKALK-LACSRKPSPPDALTTKST- 2639
Db 2689 AVNSDITLSFHYLFAAFSCLOQIFVLLFHCVAHREVRKHLRAVLGKQLDSDSATRATL 2748
Qy 2640 LTSYNCPSPYADG--RLYQPYGDSAGSLHSTSRGKSQPSYIPFLLREESALNPGQPP 2697
Db 2749 LTLNLCNNYISGPDMLRPTALGESTASLSTTRDEGVQ-----KLSVSSGGARG 2798
Qy 2698 GLGDPGSLFL-EGQDQOQHDPTDSDLSLEDQSGSYASTHSDSESEEEEEEAAFP 2756
Db 2799 NHGEPTSFIPRNSKKAHGPDSDSSELSL-DEHSSSYASSHTSDSDGGEADK--- 2853
Qy 2757 GEGOWSLQLOPAGABRLPHSTPK-DGGPGPKAPWPGD--FGTTAKE----- 2800
Db 2854 ----WNPAGGPA-----HSTPKADALANHPAGWPDESLAGSDSEELDTEPHLKVKTKV 2903
Qy 2801 -----SSNGAPPEELRENGDALREGSLGPIPGSSAOP---HGKILKKCL--PTIS 2848
Db 2904 SVELHQQAQNHGCDRPSDPESGVLLK-----PVALUSSQOQKQKILKNKYTPPLP 2958
Qy 2849 EK--SSILRLPLBQCTGSSRGS--SASEGSRGPP-----RPPPRQSLQEQNLGYMPI 2898
Db 2959 EQPLKSLREKLADCEQSPSSRTSSLSGSDGVHATDCVITIKTPPREPREGHLNGV--- 3015
Qy 2899 AMSIKAGTVDEDSGSE 2915
Db 3016 AMNVRTGSAQANGSDSE 3032

RESULT 13

US-09-737-149-30
 ; Sequence 30, Application US/09737149
 ; Patent No. US20020077466A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Spaderna, Steven K
 ; APPLICANT: Quinn, Kerry E.
 ; APPLICANT: Shimkets, Richard A.
 ; APPLICANT: Muralidhara, Padigaru
 ; APPLICANT: Spytex, Kimberly A.
 ; TITLE OF INVENTION: Polypeptides and Nucleic Acids Encoding Same
 ; FILE REFERENCE: 15966-620 CIP
 ; CURRENT APPLICATION NUMBER: US/09/737,149
 ; CURRENT FILING DATE: 2001-06-15
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 ; PRIOR FILING DATE: 1999-12-29
 ; PRIOR APPLICATION NUMBER: 60/174,404
 ; PRIOR FILING DATE: 2000-01-04
 ; PRIOR APPLICATION NUMBER: 60/174,962
 ; PRIOR FILING DATE: 2000-01-07
 ; PRIOR APPLICATION NUMBER: 60/223,929
 ; PRIOR FILING DATE: 2000-08-09
 ; NUMBER OF SEQ ID NOS: 49
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 30
 ; LENGTH: 3034
 ; TYPE: PRT
 ; ORGANISM: Mus musculus
 US-09-737-149-30

Query Match 57.7%; Score 8974.5; DB 9; Length 3034;

Best Local Similarity 57.3%; Pred. No. 0;

Matches 1730; Conservative 429; Mismatches 648; Indels 210; Gaps 39;

QY 1 MRSPTGVLPPTPPPLLLLLLLLLPPPLGDDQVGPCLSGSRGRS-----S 48
 DB 124 LRSARGAELRSP-----AVRSPGLGDAL--CFPAAGGAASLTSLVLAITNPPA 172
 QY 49 GACAPM-----GWLCL--PSSASNLMLXTSRCDAGTGLTGLVPHHDGLRVWCPSEEA 99
 DB 173 CSCEPVAGTCRRGPICLRPGSSAELRLVCAIGRAAGA-----VWV----- 213
 QY 100 HIPLPPAPEGCPWSCRLLGIGHLSPOGKLTLPPEHPCLPKAPRLRCOSCKLAQAPLRAG 159
 DB 214 -----ELVIQATSGTPSPSPV--SPSL-----LNLSP-----RAG 243
 QY 160 --ERSPRESIGRRKRVNTAPQOPSPSYQATVPENOPAGTTPVNASLRAIDPDEGEAGLE 217
 DB 244 VVRRS-----RGTGSSTSPQPLPSYQVSPENEPAGTAVTELRAHPDDEGAGRLS 296
 QY 218 YTMALFDSRNSPFLSDPVTGAVTTAEELDRETKSTHVFRTVAQDHGMPRRSALATLI 277
 DB 297 YQEALEFDSRNGYFLDAATGAVTTARSILDRKTDHVLKVSADHGSFRSNATYLTV 356
 QY 278 LVTDNDHDPVPEQEQYKESLRENLEVGVEYLTVRATDGDAPPNANTLYRLLEGSGSGSPS 337
 DB 357 TVSDTNDHSPVFEQSEYREIRENLEVGVEYLTVRATDGDAPSANNMRYLLEGAGG--- 413
 QY 338 EIVEIDPRSGVIRTRGPVDRREVEYSQITVEASDQGRDPGRSTTAAVFLSVEDDNDNAP 397
 DB 414 -VFEIDARSGVIRTRAVVDREAAEYQLLVEANDQGRNPGPLSASATVHVIVVEDENDNYP 472
 QY 398 QFSEKRVVQVREDVTPGAPVLRVTASDRDKGSNAVVHYSITMSGNARGQFVLDAQTALD 457
 DB 473 QFSEKRVVQVREDVAVNTAVLRVQATDRDQGNAAIHYSLVSGNLKQGFTLHLSGSLD 532

QY 458 VSPLDYETTKETVLRVRAQDGGRRPLNVSGLVTVTVQVLDINDNAPIFVSTPFPQATVLES 517
 DB 533 VINPLDFEAIREYTLRIKAQDGGRRPLINSGLVSVQVLDVNDNAPIFVSPFPQAAVLN 592
 QY 518 VPLGLVLHVQADADADAGNARLEYRLAGVGH-----DEPFTINNCTG 560
 DB 593 VPLGHSVLHQAVDADAGENARLQYRLVDVASTIVGGSSVDSENPAADPFPQIHNSSG 652
 QY 561 WISVAELDREVDYFSGVEARDHGPALITASASVTVTVLDVNDNAPTFTQPYTVRLN 620
 DB 653 WITVCAELDREVEHYSGVEAVDHGSPAMSSASVITVLDVNDNDPMFTQPVVELRLN 712
 QY 621 EDAAGTSVTVSANDRDAHSVITYQITSGNTRNFISITSGGGLVSLALPLDYKLERQ 680
 DB 713 EDAAGSSVLTLRARDRANSVITYQITGNTNRNFALSSQSGGLTLTALPLDYKQERQ 772
 QY 681 YVLAVTASDGTRODTAQIVVNVTDANTHRPVFOSSHVTNVNEDRPAGTIVLLSATDED 740
 DB 773 YVLAVTASDGTSTRHTAQVFINVTDANTHRPVFOSSHVTVSVEDRPVGTSLATISATDED 832
 QY 741 TGENARITYFWDISIPOFRIDADTGAVTQABLDYEDQVSYTLAITARDNGIPQKSDTTY 800
 DB 833 TGENARITYVLEDPVQFRIDPDTGTIYTWELDYEDQAAVTLAITAQDNGIPQKSDTTS 892
 QY 801 LEILVNDVNDNAQFLRDSYQSVYEDVPPTSVLQISATDRDSGLNGRPVFTYFGGDDG 860
 DB 893 LEILILDANDNAPRFLRDFYQGSVFEDAPPSTSVLQVSATDRDSGPNRGLLYTFFGGDDG 952
 QY 861 DGDPIVESTSGIVRTLRLRLRENVAQVLRAYAVDKGMP--PARTPMEVTVTVLDVNDNPP 919
 DB 953 DGDPIESTSGVIRTQRLRENVAVYNLWALAVDRGSPNPLSASVGIQVSLVDINDNPP 1012
 QY 920 VFEQDEPDFVEENSPITGLAVARTATDPDEGTNAQIMYQIVEGNIPEVFOLDIFSGBELT 979
 DB 1013 VFEKDELELFVEENSPVGSVVARIRANDPDEGNAQIYQIVEGNVPEVFOLDILSGDLR 1072
 QY 980 ALVDLDYEDRPEYVLIQATSAPLVSRATVHVRLLDNDNDPPVLGNFEILFNNTVWESS 1039
 DB 1073 ALVELDFEVARDMYLVQVATSAPLVSRATVHRIILDDQNDNDPPPELPQILFNNTVTKNS 1132
 QY 1040 SFGGAGIRVPADDPDISDLSITYSFERGNELSLVLLNASTGELKLSALDNNRPLEATMS 1099
 DB 1133 SFGSGVIGRIIPADHPDLSLSINTYFFLOGNELSLLLLPATGELQLSRDLDNNRPLEALME 1192
 QY 1100 VLVSQGVHSYTAQALRVITITDEMILTHSITLRLEDMSPERFLSPLGLFQIAVAATLAT 1159
 DB 1193 VSVSDGHSVTALCTLRVTIITDDMLTNSITVRLNENMSQEKFLSPLLSLFEVGVATVLTST 1252
 QY 1160 PPDHVVFNVQRTDAPGHHILNVSLSVGQPPGPGGPPPLPSDLOERLYNRSLLTAL 1219
 DB 1253 TKDDIFVFNITQNDTV--SSNILNVTFSSALLPFGGTRG--RFPFSSDLOEQIYLNRTLLTTI 1309
 QY 1220 SAORVLPFDNI CLRBPENYMRVSVLRFDSAPFTASSSVLPRPHVPGGLRCRCPG 1279
 DB 1310 SAORVLPFDNI CLRBPENYMRVSVLRFDSAPFTASSSVLPRPHVPGGLRCRCPG 1369
 QY 1280 FTGDYCEYEDVLCYRPGPHGRCSRREGGYTCLCRDGYTGEHCEVSARSGRCTPGVCKN 1339
 DB 1370 FTGDYCEYEDVLCYRPGPHGRCSRREGGYTCECFEDFTGEHCQVNVRSGRKASGVCKN 1429
 QY 1340 GGTGVNLLVGGFKDCPSPGDFEKPYPQVTRSPAHFIFTRGLRQRFHTLALSPATKE 1399
 DB 1430 GGTGVNLLVGGFKDCPSPGDFEKPYPQVTRSPAHFIFTRGLRQRFHTLALSPATKE 1489
 QY 1400 RDGLLYNGRPNKHPDVALEIOEQVLTFSAGESITTVSPFVPGVSDGQWHTVOLKY 1459
 DB 1490 RNALLYNGRPNKHPDVALEIOEQVLTFSAGESITTVSPFVPGVSDGQWHTVOLKY 1549
 QY 1460 YNKPFLGQTLPGPQSEKQVAVVTVDCDGTGVALRFGSLVGLNSCAAQGTGGSKKSLDL 1519
 DB 1550 YNKPFLGQTLPGPQSEKQVAVVTVDCDGTGVALRFGSLVGLNSCAAQGTGGSKKSLDL 1609
 QY 1520 TGPLLLGGVDPDPSPFVRMRQFVQVCMRNLTQVDSRHTDMADFTIANNNGTVPGCPAKNVCD 1579

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Db 1610 TGPILLGVNLPEDFFVHSRQFCVGNLSIDGRIVDMAFIANNTRAGCASQNFCD 1669
Qy 1580 SNTCHNGGTGNOWDAPSCBPGFSGKSCAQEMANQHFGLGSLVAHGLSLPISOPWY 1639
Db 1670 GTSQNGGTGNWNTVLCBPLRFSGKNCQAMPHPQRFSGSVLWDLDTISVPWY 1729
Qy 1640 LSLMFRTRQADGVLLQAITRSTITLQREGHVMSVEGTGQASLRLEPGRANDGW 1699
Db 1730 LGLMFRTRKEDGVLMTEATGTSRKLHIQILNSYIRFEVSGPSDVASMQSKRITDGGW 1789
Qy 1700 HHAQALCAGGGPH-----AIIISFDYQOQRAEGNLPRLHGLHLSNITVGGIPGAGV 1754
Db 1790 HLLIEL-RAKEGDKYILAVMTLDYGMOSTVOIGNQLPGLKMTIIVIGGVTEKVS 1848
Qy 1755 ARGFRGLQGVYSDTPEGVNSLDPSHGESINVEQCSLPDPCDNPANYSYCSNDWDS 1814
Db 1849 RHGFRGCMQGVRMGETSTNIATLNMMDALKVRVKDGDVEDPCASSPCPPHRPCRDWDS 1908
Qy 1815 YSCSCDRPGYGDCTNVDLNPCEHQSCTRKPSAPHGYTCECPNVLGYPCETRIDQC 1874
Db 1909 YSICIDRGYFGKCVDAACLNPCKHAACVRSNTPRGYSCBPGHYGYCENKVDLPC 1968
Qy 1875 PRGMWGHPTGCPNCNDYSKGFDPDCNKTSGECHKENHYRPPGSPPTCLLDCYPTGSLR 1934
Db 1969 PKGMWGNVCPCHCAVSQFDPDCNKTNGCQCKENYKFPQAQDACLPDCDFPHGSHR 2028
Qy 1935 VCDPEDQCPCKPGVIGRQCDRCNDPFAVYNTGCEVNYDCSPRAIEAGIWMPTRFGLP 1994
Db 2029 ACDMDTQCAKCPGVIQRCNCRNDPFAVYNTGCEVNYDCSPRAIEAGIWMPTRFGLP 2088
Qy 1995 AAAPCPKSGTAVRHCHDEHGMPLPNLFNCTSTTFSELKGFPAERLQNESGLDSRSQ 2054
Db 2089 AAVPCPKSGVGNVHSGSEKGMPLPELFNCTSGSFVDLKALEKLNERNETRMNGNSLR 2148
Qy 2055 LALLRNATQTAGYFGSDVKVAYQALATRIIHAESTQGFGLSATQDVHFTENLLRVGSA 2114
Db 2149 LAKALRNATQNSTLFGNDVRTAYQALLRILOHESRQGFDAATREANFHEVDVHTGSA 2208
Qy 2115 LLDPTANKRWELIQQTEGGTAWLQHYEASALQANMRHTYLSPTFTVTPNIVISVRL 2174
Db 2209 LLAPATEASWEQIQRSAGAAQLRHFEAFVSNVARNVKTLYLPFPVIVITANMILAVDIF 2268
Qy 2175 DKGNFACAKLPYEAALRGEQPPDLETTVILPESVF-----RETBPVR-----PAGP 2221
Db 2269 DKLNFTGAQVPRFEDIQELPRELESSVFPADTFKPKKGGVGVVLTNRRTTPLTAQP 2328
Qy 2222 GEAEPEELARRORRHPSELSQGEAVSVIYRTLAGLLPHNYDPDKRSRVPKRPINTP 2281
Db 2329 EPRAERTSSRRRRHDEPGQFVALVIVYRTLCQLLPHYDHPDRSLRLPNRPVINTP 2388
Qy 2282 VVISVHDBELLPRALDKPVTVQFRILEETERTKPICVFNHNSILVSGTGMSARCEV 2341
Db 2389 VVSAMVYSEGTPLPSSLQRPILVEFSLLETERSKEPVCVFNHNSLDTGGTGGWSAKGCEL 2448
Qy 2342 VFNESHVSCOCNMTSFVAVLMDVSRRENGEILPLKTLTYVALGVTLAALLFPFLTLL 2401
Db 2449 LSRNRHTVQCQSHSACAVLMDISREHGEVLEKTIITVAALSLSVALLVAFVLLSLV 2508
Qy 2402 RILRSNGHTRRNLTAAALGAQLVFLGIGNQADLPFACTVIAILLHLYLCTPSWALLEA 2461
Db 2509 RTLRSNLHSHKHLIAALFSQLIFMWGINTENPFCTVVAILLHVSMTFANTLIVEN 2568
Qy 2462 LHLVRLATEVRDNTGPMRFYMLGWGVPAPITGLAVGLDPEGYGNPDFCWLSTYDTLIW 2521
Db 2569 LHVYMLTEVRNIDTGPMPFHVVGWGIPIAVTGLAVGLDPOQGYGNPDFCWLSTYDTLIW 2628
Qy 2522 SPAGPVAFVMSVFLYILARASCAQORQFEGKGPVSGLOPQFSAVILLISATWILLALL 2581
Db 2629 SPAGPVGTIIINTVIVLSAKVSCQRKHYYERKGVVSMRLRTAFLLLLVATWLLGLL 2688
Qy 2582 SVNSDILLHLYLPATCNCIQGPFIFLSVVLSEKVRKALK-LACSRKPSPPALTTKST- 2639

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Db 2689 AVNSDTLSFHYLPAFASCLQIFVLLFHCVAHREVRKHLRAVLAKGLQLDDSATTRATL 2748
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Db 2749 LFTSLNCTNNTYSGPMLRTALGESTASLDSTTRDEGVQ-----KLSVSSGPARG 2798
Qy 2698 GLGDPSLFL-EGDQDQHDPTDSDLSLEDQSGSYASTHSDSEEEEEEEEEAAFP 2756
Db 2799 NHGEPDTSFIPRNSKKAHGPDSDSSELSL-DHSSSYASSHTSDSDDDGGEADK---- 2853
Qy 2757 GEOGWDLSLGPAGAEERLHLSTPK-DGPGPGKAPWPCD--FGTAAKE----- 2800
Db 2854 ----WNPAGGPA-----HSTPKADALANHVPAGWPDESLSGSDSELDTEPHLKVETKV 2903
Qy 2801 -----SSNGAPERLRENGDALSRGSLGPLGSSAQP-----HKGILKKCL--PTIS 2848
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Qy 2849 EK--SSILRLPLEQCTGSSRGS--SASEGSRGGPPP-----RPPPROSLQEOALNGVMP 2898
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Db 3016 AMNVRTGSAQANGSDSE 3032

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RESULT 14
US-10-131-409-70
; Sequence 70, Application US/10131409
; Publication No. US20030199465A1
; GENERAL INFORMATION:
; APPLICANT: Malyankar et al.
; TITLE OF INVENTION: No. US20030199465A1 Polypeptides and Nucleic Acids Encoding San
; FILE REFERENCE: 15966-675CIP1CON1
; CURRENT APPLICATION NUMBER: US/10/131,409
; FILING DATE: 2002-10-24
; PRIOR APPLICATION NUMBER: 09/898,954
; PRIOR FILING DATE: 2001-07-03
; PRIOR APPLICATION NUMBER: 60/182,733
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 60/182,724
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 60/183,896
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 60/184,497
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/224,157
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/184,482
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,744
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/197,083
; PRIOR FILING DATE: 2000-04-13
; PRIOR APPLICATION NUMBER: 60/233,405
; PRIOR FILING DATE: 2000-09-18
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 70
; LENGTH: 3034
; TYPE: PRT
; ORGANISM: Mus musculus
US-10-131-409-70

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Db	244	-----RGTGSSSTSPPLPSYQVSPENEPAGTAVIELRAHDPDEGDAGRLS	296
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Db	297	YQMEALFDSRNGYFLIDAATGAVTTARSILDRRETKDTHVLKVSADVHSGSPRRSAATVLT	356
Qy	278	LVTDTNDHDPVFEQOEYKESIRENLEIVGYEVLVTRATDGPAPPNANLTYLLRSGSGSPS	337
Db	357	TVSDTNHSPVFEQSEYRERIRENLEIVGYEVLVTRATDGPASNANNRYLLLEGAGG---	413
Qy	338	EVPEIDPRSGVIRTRGPPVDREEVESYQLTVEASDQGRDPGPRSTTAAVFLSVEDNDNAP	397
Db	414	-VFEBIDARSGVVRTRAVVDREEAAYQLLVEANDQGRNPGPLSASATVHIVEDENDYP	472
Qy	398	QFSEKRYVVOVREDVTPGAPVLRVTASDRDKGSNAVHYHYSIMSGNARGQFYLDAQTCALD	457
Db	473	QFSEKRYVVOVPEDVAVNTAVLRVQATDRDQGNAAIHYISVGNLKGQFYLHLSGSLD	532
Qy	458	WVSPGLDYETTKYTLRVRAQDGRPPILSNVSGLVTVOVLIDNNAPITFVSTPFOATVLES	517
Db	533	VINPLDFEAREYETRLTKAODGGRPPILNSSLVSVQVLVDNNAPITFVSSPFOAAVLEN	592
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Qy	980	ALVDLDEYDRPEYVLVIQATSAPLVSATVVRLLDRDNDPPVLGNPEILFNNAVTRNSS	1039
Db	1073	ALVELDPEVRDYMVLVQATSAPLVSATVHRLLDQNDNPPELDPQILLFNNAVTKSN	1132
Qy	1040	SFPGGATGRVPAHDPDIDSLSITVSFERGNELSLVLLNASTGELKLSPALDNNRPLEAIMS	1099
Db	1133	SFSPSGVIGRIPAHDPDIDSLSINTVFLQGNELSLILLDPATGELQLSRDLONNRPLEALME	1192

Qy	1100	VLVSDGVHSTVAQCALRVTTIITDEMLTHSTILRLBDMSPERFISPLILGLPIQAVANTLAT	11159
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Qy	1160	PPDHVVENVQRTDAPGGHILNVSISVGOPPCGGGGPPPLPSEDLOERLYLNRSLLTAI	1219
Db	1253	TKODIFVFNIQNDIV-SSNILNVTFSALLPGGTG--RFPFSEDIQOEYILNRTILTTI	1309
Qy	1220	SAORVLFPDDNICLIREPCENYMRCSVLRFDDSSAPFIASSSVLFRPIHPVGGJLRCRCPG	1279
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Db	1370	FTGDYCETEIDLCSNPCCANGRCRREGGYTCECFEDFTGEHCQVNVASGRCASGVCKN	1429
Qy	1340	GGTCVNLVGGFKCDPCSDGDFKPYCOVTTSPSAHSFITFGLRORFHTLALSFKTE	1399
Db	1430	GGTCVNLILGGFFHCVPBGYEHYPCEVSTRSPFQSFVTFRGLRORFHTVLSLAFATQD	1489
Qy	1400	RDGLLYNGRNFNEKHDFVALVEVQEOVLQTFSSAGESTTVTSPVPGGVSDGOWHITVOLKY	1459
Db	1490	RNALLYNGRNFNEKHDFIALEIVEERQLQTFSSAGETTTVTPQVPGVSDGRWHSLVQY	1549
Qy	1460	YNKPLLGQTLGPOGPSEQVAVVTVDCGTGVALRFGSVLGNYSCAAQGTQGSKKSLDL	1519
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Qy	1520	TGPLLGGVDDLPESPPVRMRQFVGCWRNLQVDSRHIDMADFTANNGTVPGCCPAKNVCD	1579
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Qy	1580	SNTECHNGGTCVNOWDAFSCBCLPGFGKSCAQBMANPOHPLGSLVAWHGSLSLPISOPWY	1639
Db	1670	GTSCQNGETCVNRWNYLLCECPRLRFGKNCQEQAMPHPORPTGESVVLMSDLDTISVPWY	1729
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Db	1730	LGLMFRTRKEDGVLMTEAGTSSRLHLQILNYSIRPEVSVYGPSDVASMQLSKSRITDGGW	1789
Qy	1700	HHAQLALGASGGPH-----AILSPDYGOQRAEGNIGLPRHLGHLHLSNITVGGTIPGAGGV	1754
Db	1790	HHLLIEL-LSAKEGDKIYLAVMNTLDYGMDOSTVQIGNQLPGLMKRTIIVGGYTEDKVSV	1848
Qy	1755	ARGFRGLQVRYSYDTPGEVNSLDPSHGESINVEQGCSLPDDPCDSNPCPANSYCSNDWDS	1814
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Qy	1935	VCDPEDGCPCKPGVITGROCDRCNDPFAEVTTCGCVNYDSCPRATEAGIWWPRTFGLP	1994
Db	2029	ACDMDTGQCAKCPGVITGROCNCRDNPFVETSLGCEVITYNGCPRAPFAEGLWWPQTKGPQ	2088
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Qy	2115	LLOTANKRHWELLQOETEGGTAMLLQHYEAYASALAQMRHTYLSPTTIVTPNIVISVRL	2174
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; Sequence 70, Application US/10139854
; Publication No. US20030202971A1
; GENERAL INFORMATION:
; APPLICANT: Majumder, Kumud
; TITLE OF INVENTION: Novel Polypeptides and Nucleic Acids Encoding Same
; FILE REFERENCE: 15966-675CON2
; CURRENT APPLICATION NUMBER: US/10139, 854
; CURRENT FILING DATE: 2002-12-02
; PRIOR APPLICATION NUMBER: 09/783,429
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/182,733
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 60/182,724
; PRIOR FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 60/183,896
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; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 60/184,497
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/224,157
; PRIOR FILING DATE: 2000-08-10
; PRIOR APPLICATION NUMBER: 60/184,482
; PRIOR FILING DATE: 2000-02-23
; PRIOR APPLICATION NUMBER: 60/184,744
; PRIOR FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: 60/197,083
; PRIOR FILING DATE: 2000-04-13
; PRIOR APPLICATION NUMBER: 60/233,405
; PRIOR FILING DATE: 2000-09-18
; Remaining prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 70
; LENGTH: 3034
; TYPE: PRT
; ORGANISM: Mus musculus
; US-10-139-854-70
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Query Match 57.7%; Score 8974.5; DB 15; Length 3034;
Best Local Similarity 57.3%; Pred. No. 0;
Matches 1730; Conservative 429; Mismatches 648; Indels 210; Gaps 39;

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Search completed: April 6, 2005, 14:15:47
Job time : 270 secs

GenCore version 5.1.1.6
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OM protein - protein search, using sw model

Run on: April 6, 2005, 13:57:42 ; Search time 65 Seconds
(without alignments)
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Perfect score: 2923
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Gapop 60.0 , Gapext 60.0

Searched: 513545 seqs, 74649064 residues

Word size : 0

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
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Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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4	21	0.7	44	1	US-08-268-161A-16
5	21	0.7	44	2	US-08-453-702A-16
6	21	0.7	44	3	US-09-099-639-16
7	21	0.7	44	5	PCT-US93-12588-16
8	21	0.7	44	5	PCT-US95-08071-16
9	18	0.6	884	2	US-08-465-976A-2
10	18	0.6	884	2	US-08-982-412-2
11	15	0.5	43	1	US-07-998-003A-83
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16	15	0.5	43	3	US-09-099-639-83
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19	13	0.4	311	2	US-08-318-837-9
20	13	0.4	467	4	US-09-148-545-134
21	13	0.4	467	4	US-09-907-794A-195
22	13	0.4	467	4	US-09-905-125A-195
23	13	0.4	467	4	US-09-902-775A-195
24	13	0.4	467	4	US-09-906-700-195
25	13	0.4	467	4	US-09-903-603A-195
26	13	0.4	467	4	US-09-904-920A-195
27	13	0.4	467	4	US-09-909-064A-195

28	13	0.4	467	4	US-09-905-381A-195	Sequence 195, App
29	13	0.4	467	4	US-09-906-618-195	Sequence 195, App
30	13	0.4	566	4	US-09-491-522-7	Sequence 7, Appl
31	13	0.4	566	4	US-09-949-016-7010	Sequence 7010, Ap
32	13	0.4	566	4	US-09-949-016-8505	Sequence 8505, Ap
33	13	0.4	633	4	US-09-919-060-13	Sequence 13, Appl
34	13	0.4	871	3	US-09-245-041-19	Sequence 19, Appl
35	13	0.4	871	4	US-09-358-055B-19	Sequence 19, Appl
36	13	0.4	871	4	US-09-893-238-19	Sequence 19, Appl
37	13	0.4	1211	4	US-09-491-522-5	Sequence 5, Appl
38	13	0.4	1211	4	US-09-949-016-11401	Sequence 11401, A
39	13	0.4	1350	3	US-09-245-041-17	Sequence 17, Appl
40	13	0.4	1350	4	US-09-358-055B-17	Sequence 17, Appl
41	13	0.4	1350	4	US-09-893-238-17	Sequence 17, Appl
42	12	0.4	116	4	US-09-270-767-32261	Sequence 32261, A
43	12	0.4	116	4	US-09-270-767-47478	Sequence 47478, A
44	12	0.4	969	2	US-08-548-159-1	Sequence 1, Appl
45	12	0.4	986	2	US-08-548-159-3	Sequence 3, Appl

ALIGNMENTS

RESULT 1
US-07-998-003A-16
; Sequence 16, Application US/07998003A
; Patent No. 5643781
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Bicknell
; STREET: 20 South Clark Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/998,003A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5643781and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 30903
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/346-5750
; TELEFAX: 312/984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-998-003A-16

Query Match 0.7%; Score 21; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 483 PLSNVSLVTVQVLDINDNAP 503
Db 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 2
US-08-453-274B-16
; Sequence 16, Application US/08453274B
; Patent No. 5663300
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,274B
; FILING DATE: 30-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5663300and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32660
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-453-274B-16

Query Match 0.7%; Score 21; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 483 PLSNVSLVTVQVLDINDNAP 503
|||||
DB 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 3
US-08-453-695A-16
; Sequence 16, Application US/08453695A
; Patent No. 5708143
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,695A

; FILING DATE:
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5708143and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32658
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-453-695A-16

Query Match 0.7%; Score 21; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 483 PLSNVSLVTVQVLDINDNAP 503
|||||
DB 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 4
US-08-268-161A-16
; Sequence 16, Application US/08268161A
; Patent No. 5798224
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Borun
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/268,161A
; FILING DATE: June 27, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Young J. Suh
; REGISTRATION NUMBER: P-41,337
; REFERENCE/DOCKET NUMBER: 27866/32149
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-268-161A-16

Query Match 0.7%; Score 21; DB 1; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


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Qy 483 PLSNVSLVTVQVLDINDNAP 503
Db 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 5
US-08-453-702A-16
; Sequence 16, Application US/08453702A
; Patent No. 5891706
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,702A
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5891706and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32657
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-453-702A-16
; QUERY MATCH 0.7%; Score 21; DB 2; Length 44;
; Best Local Similarity 100.0%; Pred. No. 9e-11;
; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 483 PLSNVSLVTVQVLDINDNAP 503
Db 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 6
US-09-916-849a-3
; Sequence 16, Application US/09099639
; Patent No. 6262237
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31811
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-916-849a-3
; QUERY MATCH 0.7%; Score 21; DB 2; Length 44;
; Best Local Similarity 100.0%; Pred. No. 9e-11;
; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 483 PLSNVSLVTVQVLDINDNAP 503
Db 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 7
PCT-US93-12588-16
; Sequence 16, Application PC/TUS9312588
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Borun
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 31811
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-09-916-849a-3
; QUERY MATCH 0.7%; Score 21; DB 3; Length 44;
; Best Local Similarity 100.0%; Pred. No. 9e-11;
; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US93-12588-16

Query Match 0.7%; Score 21; DB 5; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 483 PLSNVSLVTVQVLDINDNAP 503
Db 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 8
PCT-US95-08071-16

; Sequence 16, Application PC/TUS9508071
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; ADDRESSEE: Borun
; STREET: 6300 Sears Tower, 233 S. Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08071
; FILING DATE:
; CLASSIFICATION:

; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US93/12588
; FILING DATE: 23 DEC 1993
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/998,003
; FILING DATE: 29 DEC 1992

; ATTORNEY/AGENT INFORMATION:
; NAME: Noland, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856

; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 44 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PCT-US95-08071-16

Query Match 0.7%; Score 21; DB 5; Length 44;
Best Local Similarity 100.0%; Pred. No. 9e-11;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 483 PLSNVSLVTVQVLDINDNAP 503
Db 24 PLSNVSLVTVQVLDINDNAP 44

RESULT 9

US-08-465-976A-2
; Sequence 2, Application US/08465976A
; Patent No. 5869632
; GENERAL INFORMATION:
; APPLICANT: SOPPET, DANIEL R
; APPLICANT: LI, YI
; APPLICANT: ROSEN, CRAIG A
; APPLICANT: RUBEN, STEVEN M
; TITLE OF INVENTION: HUMAN G-PROTEIN RECEPTOR
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: CARELIA, BYRNE, BAIN GILFILLAN, CECCHI
; ADDRESSEE: STEWART & OLSTEIN
; STREET: 6 BECKER FARM ROAD
; CITY: ROSELAND
; STATE: NJ
; COUNTRY: US
; ZIP: 07068

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/465,976A
; FILING DATE: 06-JUN-1995

; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: FERRARO, GREGORY F
; REGISTRATION NUMBER: 36,134
; REFERENCE/DOCKET NUMBER: 325800-444
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (201) 994-1700
; TELEFAX: (201) 994-1744

; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 884 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-465-976A-2

Query Match 0.6%; Score 18; DB 2; Length 884;
Best Local Similarity 100.0%; Pred. No. 6.4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2495 GLAVGLDPEGYGNDPCFW 2512
Db 220 GLAVGLDPEGYGNDPCFW 237

RESULT 10

US-08-982-412-2
; Sequence 2, Application US/08982412
; Patent No. 5958729
; GENERAL INFORMATION:
; APPLICANT: SOPPET, DANIEL R
; APPLICANT: LI, YI
; APPLICANT: ROSEN, CRAIG A
; APPLICANT: RUBEN, STEVEN M
; TITLE OF INVENTION: HUMAN G-PROTEIN RECEPTOR
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: HUMAN GENOME SCIENCES, INC.
; STREET: 9410 KEY WEST AVENUE
; CITY: ROCKVILLE,
; STATE: MD
; COUNTRY: US
; ZIP: 20850
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible

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; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/982.412
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: BROOKES, ANDERS A
; REGISTRATION NUMBER: 36,373
; REFERENCE/DOCKET NUMBER: PF181PCT2
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301) 309-8504
; TELEFAX: (301) 309-8439
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 884 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-982-412-2
;
Query Match 0.6%; Score 18; DB 2; Length 884;
Best Local Similarity 100.0%; Pred. No. 6.4e-07;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2495 GLAVGLDPEGYNPDFCW 2512
Db 220 GLAVGLDPEGYNPDFCW 237

RESULT 11
US-07-998-003A-83
; Sequence 83, Application US/07998003A
; Patent No. 5643781
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 20 South Clark Street
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60603
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/998.003A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5643781and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 30903
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/346-5750
; TELEFAX: 312/984-9740
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 43 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-07-998-003A-83
;
Query Match 0.5%; Score 15; DB 1; Length 43;

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Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 791 GIPQKSDTTYLEILV 805
Db 21 GIPQKSDTTYLEILV 35

RESULT 12
US-08-453-274B-83
; Sequence 83, Application US/08453274B
; Patent No. 5663300
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 107
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/453,274B
; FILING DATE: 30-MAY-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5663300and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32660
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 43 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-453-274B-83
;
Query Match 0.5%; Score 15; DB 1; Length 43;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 791 GIPQKSDTTYLEILV 805
Db 21 GIPQKSDTTYLEILV 35

RESULT 13
US-08-453-695A-83
; Sequence 83, Application US/08453695A
; Patent No. 5708143
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606

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COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/453,695A
FILING DATE:
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: No. 5708143and, Greta E.
REGISTRATION NUMBER: 35,302
REFERENCE/DOCKET NUMBER: 32658
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 83:
SEQUENCE CHARACTERISTICS:
LENGTH: 43 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-453-695A-83

Query Match      0.5%; Score 15; DB 1; Length 43;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      791 GIPQKSDTTYLEILV 805
DB      21 GIPQKSDTTYLEILV 35

RESULT 14
US-08-268-161A-83
; Sequence 83, Application US/08268161A
; Patent No. 5798224
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS: 115
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE: June 27, 1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Young J. Suh
; REGISTRATION NUMBER: P-41,337
; REFERENCE/DOCKET NUMBER: 27866/32149
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 43 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
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TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-268-161A-83

Query Match      0.5%; Score 15; DB 1; Length 43;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      791 GIPQKSDTTYLEILV 805
DB      21 GIPQKSDTTYLEILV 35

RESULT 15
US-08-453-702A-83
; Sequence 83, Application US/08453702A
; Patent No. 5891706
; GENERAL INFORMATION:
; APPLICANT: Suzuki, Shintaro
; TITLE OF INVENTION: Protocadherin Materials and Methods
; NUMBER OF SEQUENCES: 115
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray, &
; STREET: 233 South Wacker, 6300 Sears Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: USA
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: No. 5891706and, Greta E.
; REGISTRATION NUMBER: 35,302
; REFERENCE/DOCKET NUMBER: 32657
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 83:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 43 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-453-702A-83

Query Match      0.5%; Score 15; DB 2; Length 43;
Best Local Similarity 100.0%; Pred. No. 2e-05;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      791 GIPQKSDTTYLEILV 805
DB      21 GIPQKSDTTYLEILV 35

Search completed: April 6, 2005, 14:16:42
Job time : 66 secs
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 6, 2005, 14:11:38 ; Search time 250 Seconds
(without alignments)
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Gapop 60.0 , Gapext 60.0

Searched: 1418010 seqs, 331997259 residues

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Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Published Applications AA:*

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- 19: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
- 20: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2923	100.0	2923	10	US-09-916-849A-3
3	2923	100.0	2923	14	US-10-225-567A-524
4	2923	100.0	2923	14	US-10-174-677-29
5	2923	100.0	2923	15	US-10-120-801-53
6	2923	100.0	2923	15	US-10-292-798-932
7	2923	100.0	2923	15	US-10-038-854-70
8	2837	97.1	2956	9	US-09-788-711A-2
9	2018	69.0	2560	15	US-10-276-774-1774
10	1958	67.0	2936	15	US-10-311-623-9
11	534	18.3	568	9	US-09-843-856-2
12	485	16.6	565	14	US-10-176-847-100
13	281	9.6	568	15	US-10-264-237-2041

14	281	9.6	717	9	US-09-925-300-1299	Sequence 1299, Ap
15	179	6.1	646	14	US-10-017-161-1096	Sequence 1096, Ap
16	168	5.7	2920	15	US-10-038-854-71	Sequence 71, Appl
17	118	4.0	219	9	US-09-764-870-331	Sequence 331, App
18	118	4.0	219	14	US-10-125-540-331	Sequence 331, App
19	100	3.4	111	9	US-09-764-870-479	Sequence 479, App
20	100	3.4	111	14	US-10-125-540-479	Sequence 479, App
21	82	2.8	96	9	US-09-764-893-108	Sequence 108, App
22	82	2.8	96	9	US-09-764-881-94	Sequence 94, Appl
23	82	2.8	96	9	US-09-764-853-659	Sequence 659, App
24	82	2.8	96	9	US-09-764-898-286	Sequence 286, App
25	82	2.8	96	10	US-09-764-881-94	Sequence 94, Appl
26	82	2.8	96	14	US-10-073-865-108	Sequence 108, App
27	82	2.8	96	15	US-10-242-747-94	Sequence 94, Appl
28	59	2.0	174	14	US-10-017-161-1688	Sequence 1688, Ap
29	42	1.4	141	9	US-09-764-870-335	Sequence 335, App
30	42	1.4	141	14	US-10-125-540-335	Sequence 335, App
31	23	0.8	3034	9	US-09-737-149-25	Sequence 25, Appl
32	23	0.8	3034	9	US-09-737-149-30	Sequence 30, Appl
33	23	0.8	3034	14	US-10-131-409-70	Sequence 70, Appl
34	23	0.8	3034	15	US-10-139-854-70	Sequence 70, Appl
35	23	0.8	3034	15	US-10-120-801-52	Sequence 52, Appl
36	23	0.8	3034	15	US-10-150-813-70	Sequence 70, Appl
37	23	0.8	3034	15	US-10-150-811-70	Sequence 70, Appl
38	23	0.8	3034	15	US-10-701-283-25	Sequence 25, Appl
39	23	0.8	3034	15	US-10-701-283-30	Sequence 30, Appl
40	21	0.7	44	10	US-09-880-573-16	Sequence 16, Appl
41	20	0.7	20	10	US-09-916-849A-11	Sequence 11, Appl
42	20	0.7	20	14	US-10-225-567A-1886	Sequence 1886, Ap
43	20	0.7	20	14	US-10-225-567A-1887	Sequence 1887, Ap
44	20	0.7	1713	9	US-09-737-149-27	Sequence 27, Appl
45	20	0.7	1713	15	US-10-701-283-27	Sequence 27, Appl

ALIGNMENTS

RESULT 1

US-09-788-711A-4
; Sequence 4, Application US/09788711A
; Patent No. US20020058328A1
; GENERAL INFORMATION:
; APPLICANT: Tania Tamsin Testa
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30225
; CURRENT APPLICATION NUMBER: US/09/788,711A
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 0004196.2
; PRIOR FILING DATE: 2000-02-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: HOMO SAPIENS
; US-09-788-711A-4

Query Match	100.0%;	Score 2923;	DB 9;	Length 2923;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2923;	Conservative	0;	Mismatches	0;
			Indels	0;
			Gaps	0;
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Db	1	MRSPATGVPLPTPPPPPLLLLLLLPPPLLDQVGPCRSLGSRGSGACAPMGWLCPS	60	
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Db	61	SASNLWLTYSRCRDAGTGLTCHLVPHDGLRVWCPESEAHIPLPAPGCPWSCRLIGIG	120	
Qy	121	GHLSPOGKLTLPBHPCLKAPRLRCQSKLAQAPGLRAGERSPESLGGRKRNVNTAPQ	180	
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Db	2401	LRILRSNHQGIIRNLTAALGHAQLVFLGINOADLPFACTVIAILLHFLYLCITFSWALLE	2460
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RESULT 2

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; Sequence 3, Application US/09916849A
; Publication No. US2003008934A1
; GENERAL INFORMATION:
; APPLICANT: Bostein, et al.
; TITLE OF INVENTION: Basal Markers in Breast Cancer and Related Reagents
; TITLE OF INVENTION: Uses Thereof
; FILE REFERENCE: 2002950-0024
; CURRENT APPLICATION NUMBER: US/09/916,849A
; CURRENT FILING DATE: 2001-07-26
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3
; LENGTH: 2923
; TYPE: PRN
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Cadherin EGF
; OTHER INFORMATION: LAG Seven Pass G-Type Receptor 2

Query Match	100.0%;	Score 2923;	DB 10;	Length 2923;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 2923;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
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Db	1	MRSPTATGVPPTPPPPPLLLLLLLLLLLPPPLLDQGVGPCRSGLSRGSSGACAPMGWLCPS	60	
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Db	61	SASNLWYTSRCRDAGTGLTGHVPHDGLRWVCPSEAHPLPLPAPEGCPWSCRLLIGIG	120	

Qy	121	GHLSPOGKLTLPBHPCLKAPRLRCQSCKLAQAQGLRAGERSPEESLGGRRKRNVTAPQ	180
Db	121	GHLSPOGKLTLPBHPCLKAPRLRCQSCKLAQAQGLRAGERSPEESLGGRRKRNVTAPQ	180
Qy	181	FQPPSYQATVPENOPAGTTPVASLRAIDPDEGEAGRLVETMDALPDSRSNQPFSLDPVTGA	240
Db	181	FQPPSYQATVPENOPAGTTPVASLRAIDPDEGEAGRLVETMDALPDSRSNQPFSLDPVTGA	240
Qy	241	VTTAEELDRETKSTHVFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOYKESLRE	300
Db	241	VTTAEELDRETKSTHVFRVTAQDHGMPRRSALATLTILVTDTNDHDPVFEQOYKESLRE	300
Qy	301	NLEVGVEVLTVRATDGPAPNANILYRLLEGSGSPSEVFEIDPRSGVIRTPGVDRREV	360
Db	301	NLEVGVEVLTVRATDGPAPNANILYRLLEGSGSPSEVFEIDPRSGVIRTPGVDRREV	360
Qy	361	ESYQLTVEASDQGRDPPGRSTTAAVFLSVEDDNDNAPOFSEKRVVQVREDDVTPGAPVLR	420
Db	361	ESYQLTVEASDQGRDPPGRSTTAAVFLSVEDDNDNAPOFSEKRVVQVREDDVTPGAPVLR	420
Qy	421	VTASDRDKGSNAVVHYISIMSGNARGQFYLDATQTCALDVVSPLDYETTKETTLRVAQDGG	480
Db	421	VTASDRDKGSNAVVHYISIMSGNARGQFYLDATQTCALDVVSPLDYETTKETTLRVAQDGG	480
Qy	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLYLHLVQAIADADAGDNARL	540
Db	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLYLHLVQAIADADAGDNARL	540
Qy	541	EYRLAGVGHDPPTTINNGTGMISVAEELDREVDVFPYSGVEARDHGTALFASASVTVV	600
Db	541	EYRLAGVGHDPPTTINNGTGMISVAEELDREVDVFPYSGVEARDHGTALFASASVTVV	600
Qy	601	LDVNDNNPTFTQPEYTVRLNEDAAVGTSSVTVSAVDRDAHSVITVYQITSGNTRNRFSTS	660
Db	601	LDVNDNNPTFTQPEYTVRLNEDAAVGTSSVTVSAVDRDAHSVITVYQITSGNTRNRFSTS	660
Qy	661	QSGGLVSLALPLDYKLERQYVLAVTASDGTQDTAQIIVNVTDANTHRPFQSSHVTN	720
Db	661	QSGGLVSLALPLDYKLERQYVLAVTASDGTQDTAQIIVNVTDANTHRPFQSSHVTN	720
Qy	721	VNEDRPAGTTVLLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTQAELEDYDQVS	780
Db	721	VNEDRPAGTTVLLISATDEDTGENARITYFMEDSIPOFRIDADTGAVTQAELEDYDQVS	780
Qy	781	YTLAITARDNGIPQKSDTTLYLEILVNDVNDNAPQLRDSYQGSVVEDVPPFTSVLQISAT	840
Db	781	YTLAITARDNGIPQKSDTTLYLEILVNDVNDNAPQLRDSYQGSVVEDVPPFTSVLQISAT	840
Qy	841	DRDSGLNGRVFTYTPQGGDGDGDFIVESTSGIVTRLRLDRENVAAQYVLRAYAVDKGMP	900
Db	841	DRDSGLNGRVFTYTPQGGDGDGDFIVESTSGIVTRLRLDRENVAAQYVLRAYAVDKGMP	900
Qy	901	ARTEMEVTVTVLDVNDNPPVFEQDEDFVFEENSPIGLAVARVTATDDEGTNAQIMYQI	960
Db	901	ARTEMEVTVTVLDVNDNPPVFEQDEDFVFEENSPIGLAVARVTATDDEGTNAQIMYQI	960
Qy	961	VEGNIPEVFDLIPFSGELTALVDLYEDRPPYVLVIOQATSAPLVSRAVTHVRLLDNDNP	1020
Db	961	VEGNIPEVFDLIPFSGELTALVDLYEDRPPYVLVIOQATSAPLVSRAVTHVRLLDNDNP	1020
Qy	1021	PVLGNFELFNYYVNRSSSPFGGAIGRVPAPHDPOIDSLTSYSPFERGNELSVLVNLASTG	1080
Db	1021	PVLGNFELFNYYVNRSSSPFGGAIGRVPAPHDPOIDSLTSYSPFERGNELSVLVNLASTG	1080
Qy	1081	ELKLSRALDNNRPLEATMSVLSDGHSVTAQCALRVITITDEMLTSHITLRLDMSPER	1140
Db	1081	ELKLSRALDNNRPLEATMSVLSDGHSVTAQCALRVITITDEMLTSHITLRLDMSPER	1140
Qy	1141	FLSPGLGLFTQAAVATLATPPDHVWVFNVDRTDAPGGHILNVSLSVQPPGPGGPPFL	1200
Db	1141	FLSPGLGLFTQAAVATLATPPDHVWVFNVDRTDAPGGHILNVSLSVQPPGPGGPPFL	1200
Qy	1201	PSDLOBRLYLNRLSLTFAISAQRVLPFDDNICLREPCENYMRVCVSLRFDSSAPPIASSS	1260


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Db 1201 PSEDQERLYNLSLLTAISAQVLPFDNDNICLREPCENYMCVSVLRFDSSAPPTIASSS 1260
Qy 1261 VLFRRPHVPGGLRCRCPGPTGDIYCEDEVLDVYSRRCGPHGRCSRREGGYTCLCRDGYTG 1320
Db 1261 VLFRRPHVPGGLRCRCPGPTGDIYCEDEVLDVYSRRCGPHGRCSRREGGYTCLCRDGYTG 1320
Qy 1321 EHEVARSARCRCTPGVCKNGGTCVNLVGGFKDCPSGDPKPEKPYCQVTVTRSPAHSFITF 1380
Db 1321 EHEVARSARCRCTPGVCKNGGTCVNLVGGFKDCPSGDPKPEKPYCQVTVTRSPAHSFITF 1380
Qy 1381 RGLRQRFHTLALSFAFKERDGLLNGRFXNEKDFVALEVIQEQVQLTFSAGESSTTVTS 1440
Db 1381 RGLRQRFHTLALSFAFKERDGLLNGRFXNEKDFVALEVIQEQVQLTFSAGESSTTVTS 1440
Qy 1441 PFVPGVSDQWHTVQLKYNNKPELLGQTLPGQPSQKVAVTVTDCDGTGVALRFGSVLG 1500
Db 1441 PFVPGVSDQWHTVQLKYNNKPELLGQTLPGQPSQKVAVTVTDCDGTGVALRFGSVLG 1500
Qy 1501 NYSCAAQGTGGSKSLDLTGPILLGGVDPDPESFPVRMRQFVGMCRNIQVDSRHIDMAD 1560
Db 1501 NYSCAAQGTGGSKSLDLTGPILLGGVDPDPESFPVRMRQFVGMCRNIQVDSRHIDMAD 1560
Qy 1561 FIANNGTVPCCPAKQNVCDSENTCHNGGTCYNQWDAFSCCEPLGFGKSCAQEMANPQHFL 1620
Db 1561 FIANNGTVPCCPAKQNVCDSENTCHNGGTCYNQWDAFSCCEPLGFGKSCAQEMANPQHFL 1620
Qy 1621 GSSIVAMHGLSLPTSPQWYLSLMFRTRQADGVLLQAITRGRSTITLQREGHVMSVEGT 1680
Db 1621 GSSIVAMHGLSLPTSPQWYLSLMFRTRQADGVLLQAITRGRSTITLQREGHVMSVEGT 1680
Qy 1681 GLQASSLRLEPGRANDGWHHAOLALGASGPGHAILSDYGOORAEGLNLPRLHGLHS 1740
Db 1681 GLQASSLRLEPGRANDGWHHAOLALGASGPGHAILSDYGOORAEGLNLPRLHGLHS 1740
Qy 1741 NITVGGTIPGAGVGARFRCLQGVRSVDTPEGVNSLDPESHGESINVEQCSLPDPCDSN 1800
Db 1741 NITVGGTIPGAGVGARFRCLQGVRSVDTPEGVNSLDPESHGESINVEQCSLPDPCDSN 1800
Qy 1801 PCPANSYCSNDWDSYSCSDPGYGYGDNCTVNDLNPCEHQSVCVTRKPSAPHGYTCPCPN 1860
Db 1801 PCPANSYCSNDWDSYSCSDPGYGYGDNCTVNDLNPCEHQSVCVTRKPSAPHGYTCPCPN 1860
Qy 1861 YLGPYCESTRIDQPCPRGWHGHTCGPCNCDVSKGFPDCKNTSGECKENHYRPPGSP 1920
Db 1861 YLGPYCESTRIDQPCPRGWHGHTCGPCNCDVSKGFPDCKNTSGECKENHYRPPGSP 1920
Qy 1921 CLLCDCYPTGSLRVCDDPEDQCPCKPGVIGRQCDRCDNPPFAEVTITNGCEVNYDSCPAI 1980
Db 1921 CLLCDCYPTGSLRVCDDPEDQCPCKPGVIGRQCDRCDNPPFAEVTITNGCEVNYDSCPAI 1980
Qy 1981 EAGIWWPRTFRGLPAAAPCPKGSFGTAVRHCDHRGWLPPNLPNCTSIITFSELKGFABRL 2040
Db 1981 EAGIWWPRTFRGLPAAAPCPKGSFGTAVRHCDHRGWLPPNLPNCTSIITFSELKGFABRL 2040
Qy 2041 QRNEGLDGRSQOALLRNATQHTAGYFGSDVKVAYQATRLLAHESVQRFGLSATQ 2100
Db 2041 QRNEGLDGRSQOALLRNATQHTAGYFGSDVKVAYQATRLLAHESVQRFGLSATQ 2100
Qy 2101 DVHFTENLLRVGSLALDQANKRWELLQOTEGGTAMLLQHYEAYASALQNMHTYLSPP 2160
Db 2101 DVHFTENLLRVGSLALDQANKRWELLQOTEGGTAMLLQHYEAYASALQNMHTYLSPP 2160
Qy 2161 TIVTPNIVISVVRLDKGNFAGAKLPYREALRGBOQPDLETTVILPSVFRETTPVVRPAG 2220
Db 2161 TIVTPNIVISVVRLDKGNFAGAKLPYREALRGBOQPDLETTVILPSVFRETTPVVRPAG 2220
Qy 2221 PGEAQEPEELARRORRPELISQGEAVASVIIYRTLGLLPHNDPKRSIRVPRPIINT 2280
Db 2221 PGEAQEPEELARRORRPELISQGEAVASVIIYRTLGLLPHNDPKRSIRVPRPIINT 2280
Qy 2281 PWSISVHDDDELLPRALDKPVTQVFRLLTEERTKPICVFNWHSILVSGTGWSARGCE 2340
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Db 2281 PWSISVHDDDELLPRALDKPVTQVFRLLTEERTKPICVFNWHSILVSGTGWSARGCE 2340
Qy 2341 VVFNEHSVCOCHNMTSFVAVLMDVSRRENGEILPLAKTLTYVALGVTLAALLTFFFLTL 2400
Db 2341 VVFNEHSVCOCHNMTSFVAVLMDVSRRENGEILPLAKTLTYVALGVTLAALLTFFFLTL 2400
Qy 2401 LRILRSNOHGIRRNLTAAQLAVFLLLGINQADLPACTVIAILLHFLYLCFWSWALLE 2460
Db 2401 LRILRSNOHGIRRNLTAAQLAVFLLLGINQADLPACTVIAILLHFLYLCFWSWALLE 2460
Qy 2461 ALHLYRALTEVRDVTNTPMRFFYMLGNGVPAPITGLAVGLDPEGYNPDPCWLSIYDTLI 2520
Db 2461 ALHLYRALTEVRDVTNTPMRFFYMLGNGVPAPITGLAVGLDPEGYNPDPCWLSIYDTLI 2520
Qy 2521 WSPAGPVAFVAFVMSVFLYLAARASCAARQGRPKGKPVSGLOQSPFAVLLLSATWLLAL 2580
Db 2521 WSPAGPVAFVAFVMSVFLYLAARASCAARQGRPKGKPVSGLOQSPFAVLLLSATWLLAL 2580
Qy 2581 LSVNSDITLLPHYLFCATNCIOGPFIFLSYVVLKSKVRKALKACRSKPSDPALTTKSTL 2640
Db 2581 LSVNSDITLLPHYLFCATNCIOGPFIFLSYVVLKSKVRKALKACRSKPSDPALTTKSTL 2640
Qy 2641 TSSYNCSPPYADGRLYOPYGDSAGLSHSTRSGKSQPSYIPFLLRRESALNPGQPPGLG 2700
Db 2641 TSSYNCSPPYADGRLYOPYGDSAGLSHSTRSGKSQPSYIPFLLRRESALNPGQPPGLG 2700
Qy 2701 DPGSLFLEGQDQDHPDSDSLSDDDQSGSVASTHSSDSEEEEEEEEEAAFPGEQ 2760
Db 2701 DPGSLFLEGQDQDHPDSDSLSDDDQSGSVASTHSSDSEEEEEEEEEAAFPGEQ 2760
Qy 2761 WDSLLGPGAERLPLHSTPKDGGPGKAPWPGDFGTTAKESSNGCAPEERLRENGDALSR 2820
Db 2761 WDSLLGPGAERLPLHSTPKDGGPGKAPWPGDFGTTAKESSNGCAPEERLRENGDALSR 2820
Qy 2821 EGSGLPLPGSSAQPHKGLKKCLPTISEKSSLLRLPLEOCTGSSRSSSASEGSRGPPPP 2880
Db 2821 EGSGLPLPGSSAQPHKGLKKCLPTISEKSSLLRLPLEOCTGSSRSSSASEGSRGPPPP 2880
Qy 2881 RPPRQSLQEQNLGVMPIAMSIKAGTVDEDSGSEFLFNFPLH 2923
Db 2881 RPPRQSLQEQNLGVMPIAMSIKAGTVDEDSGSEFLFNFPLH 2923
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RESULT 3

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US-10-225-567A-524
; Sequence 524, Application US/10225567A
; Publication No. US20030113798A1
; GENERAL INFORMATION:
; APPLICANT: Lifespan Biosciences
; APPLICANT: Brown, Joseph P.
; APPLICANT: Burner, Glenna C.
; APPLICANT: Roush, Christine L.
; TITLE OF INVENTION: ANTIGENIC PEPTIDES AND ANTIBODIES FOR G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 1920-4-4
; CURRENT APPLICATION NUMBER: US/10/225,567A
; PRIOR FILING DATE: 2001-12-19
; PRIOR APPLICATION NUMBER: 60/257,144
; PRIOR FILING DATE: 2000-12-19
; NUMBER OF SEQ ID NOS: 2292
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 524:
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-225-567A-524
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Query Match 100.0%; Score 2923; DB 14; Length 2923;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRSPATGVLPPTPPPPPLLLLLLLLLPPPLLDQGVGPCRSIGSRGSSGACAPMWLCP 60

Db 1 MRSPATGVLPPTPPPPPLLLLLLLLLPPPLLDQGVGPCRSIGSRGSSGACAPMWLCP 60

Qy 61 SASNLWYTSRCRDAGTGLTGHLPVHHDGLRWCPSESAHILPLPAPEGCCPWSCLLIG 120
Db 61 SASNLWYTSRCRDAGTGLTGHLPVHHDGLRWCPSESAHILPLPAPEGCCPWSCLLIG 120
Qy 121 GHLSPQKGLTLPPEHPCCLKAPRLCQSKLAQCLRAGESPRESLGGREKRNNTAPQ 180
Db 121 GHLSPQKGLTLPPEHPCCLKAPRLCQSKLAQCLRAGESPRESLGGREKRNNTAPQ 180
Qy 181 FQPSYQATVPENOPAGTVPASLRAIDPDEGEARLEYTMDALFDSRSNQFFSLDPVTGA 240
Db 181 FQPSYQATVPENOPAGTVPASLRAIDPDEGEARLEYTMDALFDSRSNQFFSLDPVTGA 240
Qy 241 VTTAEELDRETKSTHFRVTAQDHGMPPRRSALATLITLVTNDHDPVFEQOEKESLRE 300
Db 241 VTTAEELDRETKSTHFRVTAQDHGMPPRRSALATLITLVTNDHDPVFEQOEKESLRE 300
Qy 301 NLEVGVEVLTVRATGDAPPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREEV 360
Db 301 NLEVGVEVLTVRATGDAPPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREEV 360
Qy 361 ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAQFSEKRYVVOVREDVTGAPVLR 420
Db 361 ESYQLTVEASDQGRDPGRSTTAAVFLSVEDDNDNAQFSEKRYVVOVREDVTGAPVLR 420
Qy 421 VTASDRDKGSNAVHYISMSNGARQFYLDATQALDVVSPLDYETTKYTLRVRAQDGG 480
Db 421 VTASDRDKGSNAVHYISMSNGARQFYLDATQALDVVSPLDYETTKYTLRVRAQDGG 480
Qy 481 RPPLSNVSGLTVQVLDINDNAPITFVSTPFOATVLESVPLGLYLVLHVOAIDADAGDNARL 540
Db 481 RPPLSNVSGLTVQVLDINDNAPITFVSTPFOATVLESVPLGLYLVLHVOAIDADAGDNARL 540
Qy 541 EYRLAGVGHDPFPTINNGTGWISVAEELDREEDVDFYSGVEARDHGTALPASVSVTV 600
Db 541 EYRLAGVGHDPFPTINNGTGWISVAEELDREEDVDFYSGVEARDHGTALPASVSVTV 600
Qy 601 LDVNDNNPTFQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGNTRNRFITS 660
Db 601 LDVNDNNPTFQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGNTRNRFITS 660
Qy 661 QSGGGLVSLALPLDYKLERQVLAATSDGTQRTAQIIVNVNTDANTHRPVFQSSHVTN 720
Db 661 QSGGGLVSLALPLDYKLERQVLAATSDGTQRTAQIIVNVNTDANTHRPVFQSSHVTN 720
Qy 721 VNEDRPAGTIVVLTSAITDEDTGENARITYFMEDSIPOFRIDADTGA VTTQAELOYEQVS 780
Db 721 VNEDRPAGTIVVLTSAITDEDTGENARITYFMEDSIPOFRIDADTGA VTTQAELOYEQVS 780
Qy 781 YTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSYQSGVYEDVPPPTSVLQISAT 840
Db 781 YTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSYQSGVYEDVPPPTSVLQISAT 840
Qy 841 DRDSGLNRPVYFTQGGDGDGDFIVESTSIGVITLRLDRENVAQVYLRAVADKGMPP 900
Db 841 DRDSGLNRPVYFTQGGDGDGDFIVESTSIGVITLRLDRENVAQVYLRAVADKGMPP 900
Qy 901 ARTPMEVTVTVLDVNDNPPVPEQDEFVFEVENSPIGLAVARVATATDPDEGTNAQIMYQI 960
Db 901 ARTPMEVTVTVLDVNDNPPVPEQDEFVFEVENSPIGLAVARVATATDPDEGTNAQIMYQI 960
Qy 961 VEGNIPVQQLDIFSGBELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDNP 1020
Db 961 VEGNIPVQQLDIFSGBELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDNP 1020
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Qy 1081 ELKLSRALDNNRPLEAIVMSVLVSDGVHSTVAQCALRVITITDEMTHSITLRLDMSPER 1140
Db 1081 ELKLSRALDNNRPLEAIVMSVLVSDGVHSTVAQCALRVITITDEMTHSITLRLDMSPER 1140

Qy 1141 FLSPLLLGFIQAVAAATLATPPDHDVVFVNFVQRDTPADGGHILNVLSVSGQPPGPGGPPFL 1200
Db 1141 FLSPLLLGFIQAVAAATLATPPDHDVVFVNFVQRDTPADGGHILNVLSVSGQPPGPGGPPFL 1200
Qy 1201 PSEDLQERLYLNRSLLTAISAORVLPDDNITCLREPCENYMRCSVLRFDSSAPFIASS 1260
Db 1201 PSEDLQERLYLNRSLLTAISAORVLPDDNITCLREPCENYMRCSVLRFDSSAPFIASS 1260
Qy 1261 VLFPRPIHPVGLRCRCPPGFTGDCETEVLDICYSRCPGPHGRCSREGGYTCLCRDGYTG 1320
Db 1261 VLFPRPIHPVGLRCRCPPGFTGDCETEVLDICYSRCPGPHGRCSREGGYTCLCRDGYTG 1320
Qy 1321 EHCVSARSRCRTGVCKNGGTCTNLLVGGFKDCDPSGDFEKPYCQVTRTFPPAHSPFITF 1380
Db 1321 EHCVSARSRCRTGVCKNGGTCTNLLVGGFKDCDPSGDFEKPYCQVTRTFPPAHSPFITF 1380
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Db 1381 RGLRQRFHTLALSFATKERDGLLLYNGRFNEKHDFALEVIQEOVLQTFSGAGESTTIVS 1440
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Db 1441 PFVPGVSDGQWHTVQLKYNNKPLLGQTGLPQSPSEQKAVVTVVTDGCDTGVALRFGSVLG 1500
Qy 1501 NYSCAAQGTQGGSKSLDLTGPILLGGVPDLPESEFPVPMRQFVGCNRNLQVDSRHIDMAD 1560
Db 1501 NYSCAAQGTQGGSKSLDLTGPILLGGVPDLPESEFPVPMRQFVGCNRNLQVDSRHIDMAD 1560
Qy 1561 FIANNVTGCPAKKNVCDSENTCHNGGTCVNQWDAFSCCEPLGFGKSCAQMNPQHPL 1620
Db 1561 FIANNVTGCPAKKNVCDSENTCHNGGTCVNQWDAFSCCEPLGFGKSCAQMNPQHPL 1620
Qy 1621 GSSLVAMHGLSLPIQSPWYLSLMEFTRQADGVLLQAITRGRSTITITLQREGHVMSVEGT 1680
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Qy 1681 GLQASSLRLEPRANDGDWHHAQIALGASGPGHAILSFYDYGQOAEGLNGLRLHGLHS 1740
Db 1681 GLQASSLRLEPRANDGDWHHAQIALGASGPGHAILSFYDYGQOAEGLNGLRLHGLHS 1740
Qy 1741 NITVGGIPGAGGVARGFRGCLQGVRSVSDTPEGVNSLDPSSHGESINVSQGLSLPDCDSN 1800
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Qy 1801 PCPANSYCSNDWDSYSCSDPGYGYGDNCTVCDLNPCEHQSVCTRKPSAPHGTYCECPN 1860
Db 1801 PCPANSYCSNDWDSYSCSDPGYGYGDNCTVCDLNPCEHQSVCTRKPSAPHGTYCECPN 1860
Qy 1861 YLGPYCETRIDQPCPRGMWGHPTCGPCNCDVSKGFPDPCNKTSGECHKENHYRPPGSPT 1920
Db 1861 YLGPYCETRIDQPCPRGMWGHPTCGPCNCDVSKGFPDPCNKTSGECHKENHYRPPGSPT 1920
Qy 1921 CLLCDCYPTGSLSRVCDPEDGQCPKQVIGROCDRCDNPAEVTNCEVNYDSCPRAI 1980
Db 1921 CLLCDCYPTGSLSRVCDPEDGQCPKQVIGROCDRCDNPAEVTNCEVNYDSCPRAI 1980
Qy 1981 EAGIWWPRTRFGLPAAAPCPKSGSFGTAVRHCDHRGMLPPNLFNCTSIITFSELKGFABRL 2040
Db 1981 EAGIWWPRTRFGLPAAAPCPKSGSFGTAVRHCDHRGMLPPNLFNCTSIITFSELKGFABRL 2040
Qy 2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQALATRLLAHSTQRFGLSATQ 2100
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Qy 2101 DVHFTENLLRVGSALLDTANKRWELIQOETEGGTAWLLQHYEAVASALQONRHLYLSPF 2160
Db 2101 DVHFTENLLRVGSALLDTANKRWELIQOETEGGTAWLLQHYEAVASALQONRHLYLSPF 2160
Qy 2161 TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPPOLETTIVILPESVFRETTPVVRPAG 2220
Db 2161 TIVTPNIVISVVRDLKGNFAGAKLPRYEALRGEOPPOLETTIVILPESVFRETTPVVRPAG 2220
Qy 2221 PGEAQEPEELARRQRHPELSQGEAVASVIIYRTLAGLLPHNYDPDKRSLRVKRPPIINT 2280

Db	2221	PGEAQEPEELARQRHPELSQGEAVASVITITLGLPHNYDPRKSLRVPKPIINT	2280	
Qy	2281	PVVISVHDDDEELLPRALDKPVTVOFRLLTEBRTKPCICVFNHNSILVSGTGWSARGCE	2340	
Db	2281	PVVISVHDDDEELLPRALDKPVTVOFRLLTEBRTKPCICVFNHNSILVSGTGWSARGCE	2340	
Qy	2341	VVFNESHVSCQNHMTSFVAVLMDVSRRENCELTPLKTLTYVALGVTLAALLTTFEFLTL	2400	
Db	2341	VVFNESHVSCQNHMTSFVAVLMDVSRRENCELTPLKTLTYVALGVTLAALLTTFEFLTL	2400	
Qy	2401	LRILRSNHQIRGNLTAALGLAQVLFLGINQADLPFACTVIAILLHFLYLCITFSWALLE	2460	
Db	2401	LRILRSNHQIRGNLTAALGLAQVLFLGINQADLPFACTVIAILLHFLYLCITFSWALLE	2460	
Qy	2461	ALHLRYALTEVRDVTGPMRFYFMYLMGWGPAPITGLAVGLDPRGYGNPFCWLSIYDTLI	2520	
Db	2461	ALHLRYALTEVRDVTGPMRFYFMYLMGWGPAPITGLAVGLDPRGYGNPFCWLSIYDTLI	2520	
Qy	2521	WSPAGVAFVAVSVFLYIILAAASCAAOQGFKEKGPVSGLOPSFAVILLISATWLLAL	2580	
Db	2521	WSPAGVAFVAVSVFLYIILAAASCAAOQGFKEKGPVSGLOPSFAVILLISATWLLAL	2580	
Qy	2581	LSVNSDTLLPHYLFCATCNCIQGPFIFLSYVVLKVEVRKALKACSRKPSDPALTKSTL	2640	
Db	2581	LSVNSDTLLPHYLFCATCNCIQGPFIFLSYVVLKVEVRKALKACSRKPSDPALTKSTL	2640	
Qy	2641	TSSVNCPSVADGRLYOPYGDSAGSLHSTSRGKSQPSYIPFLLRBSALNPGQPPGLG	2700	
Db	2641	TSSVNCPSVADGRLYOPYGDSAGSLHSTSRGKSQPSYIPFLLRBSALNPGQPPGLG	2700	
Qy	2701	DPGSLFLEGQDQDHPDSDSLSDQSGSYASTHSSDSSEEEEEEERAAFPGEQG	2760	
Db	2701	DPGSLFLEGQDQDHPDSDSLSDQSGSYASTHSSDSSEEEEEEERAAFPGEQG	2760	
Qy	2761	WDSLLGFGAERLPLHSTPGKPGPKAPWPGDFGTAKESGNGAPPEERLRENGDALSR	2820	
Db	2761	WDSLLGFGAERLPLHSTPGKPGPKAPWPGDFGTAKESGNGAPPEERLRENGDALSR	2820	
Qy	2821	EGSLGPLGSSAAPHGILKKCLPTISEKSLRLPLEQCTGSSRGSSASGSGRGPPP	2880	
Db	2821	EGSLGPLGSSAAPHGILKKCLPTISEKSLRLPLEQCTGSSRGSSASGSGRGPPP	2880	
Qy	2881	RPPRQSLQGLNGWMPFIAMSIKAGTVDEDSGSEFLFNFHLH	2923	
Db	2881	RPPRQSLQGLNGWMPFIAMSIKAGTVDEDSGSEFLFNFHLH	2923	

RESULT 4
US-10-174-677-29
; Sequence 29, Application US/10174677
; Publication No. US20030190704A1
; GENERAL INFORMATION:
; APPLICANT: Xie, Ting
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR ANCHORING STEM CELLS IN A MICROENVIR
; FILE REFERENCE: 40716(IP-012)
; CURRENT APPLICATION NUMBER: US/10/174, 677
; CURRENT FILING DATE: 2002-06-19
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 29
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-174-677-29

Query Match 100.0%; Score 2923; DB 14; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MRSPATGVLPPTPPPPPLLLLLLLLLPPPLLDGQVGCPSLGRSGSSGACAPMGWLCPS	60	
Db	1	MRSPATGVLPPTPPPPPLLLLLLLLLPPPLLDGQVGCPSLGRSGSSGACAPMGWLCPS	60	

1141 QY FLSPLGLFIOAVATLATPDHVVVFNVDTPDAGGHIILNVLSVQPPGCGGPPFL 1200
1141 Db FLSPLGLFIOAVATLATPDHVVVFNVDTPDAGGHIILNVLSVQPPGCGGPPFL 1200
1201 QY PSEDQERLYLNRSLTATSAQRVLPFDNIDCLREPCENYMRCSVLAFDSSAPFIASSS 1260
1201 Db PSEDQERLYLNRSLTATSAQRVLPFDNIDCLREPCENYMRCSVLAFDSSAPFIASSS 1260
1261 QY VLFPIHPVGLRCRCPGFTGDYCETEDVLCYSRCPGPHRCRSREGGYTCLCRDGYTG 1320
1261 Db VLFPIHPVGLRCRCPGFTGDYCETEDVLCYSRCPGPHRCRSREGGYTCLCRDGYTG 1320
1321 QY EHCVSARSRCRTPGVCKNGGTCVNLVGGFKDCPSGDFEKPVCQVTRFPAHSRITF 1380
1321 Db EHCVSARSRCRTPGVCKNGGTCVNLVGGFKDCPSGDFEKPVCQVTRFPAHSRITF 1380
1381 QY RGLRQRFHTLALSFATKERDGLLYNGRFXNEKHDVFALEVIQEQVQLTFPSAGESTTTVS 1440
1381 Db RGLRQRFHTLALSFATKERDGLLYNGRFXNEKHDVFALEVIQEQVQLTFPSAGESTTTVS 1440
1441 QY PFVPGGSDGQWHTVOLKYINKPLLGOTGLPQGPSEQKVAVVVDGCDTGVALRFGSVLG 1500
1441 Db PFVPGGSDGQWHTVOLKYINKPLLGOTGLPQGPSEQKVAVVVDGCDTGVALRFGSVLG 1500
1501 QY NYSCAAQGTQGSKKSLDLTGPLLLGGVPDLPESPFVVRMROFVGMRLNLOYDSRHIDMAD 1560
1501 Db NYSCAAQGTQGSKKSLDLTGPLLLGGVPDLPESPFVVRMROFVGMRLNLOYDSRHIDMAD 1560
1561 QY FIANNGTVPGPCAKKNVCDSTCHNGGTCVNQWDAFSCCEPLFGGKSCAQEMANPOHFL 1620
1561 Db FIANNGTVPGPCAKKNVCDSTCHNGGTCVNQWDAFSCCEPLFGGKSCAQEMANPOHFL 1620
1621 QY GSSLVAVHGLSLPISQPYWLSLMPRTROADGVLLQAITRGRSTITLQLRHGVMLSVEGT 1680
1621 Db GSSLVAVHGLSLPISQPYWLSLMPRTROADGVLLQAITRGRSTITLQLRHGVMLSVEGT 1680
1681 QY GLQASSLRLEPGRANDGWHHAQALGASGPGHAILSPDYQQAQRAENGLPRHLGLHLS 1740
1681 Db GLQASSLRLEPGRANDGWHHAQALGASGPGHAILSPDYQQAQRAENGLPRHLGLHLS 1740
1741 QY NITVGGIPGAGGVARGFGLGQVRVSDTPEGVNSLDPHSGESINVEQGCSLPDPDCSN 1800
1741 Db NITVGGIPGAGGVARGFGLGQVRVSDTPEGVNSLDPHSGESINVEQGCSLPDPDCSN 1800
1801 QY PCPANSYCSNDWDSYSCSDPGYTGDNCTNVCNLPCEHQSVCTRKPASPHGYTCECPNP 1860
1801 Db PCPANSYCSNDWDSYSCSDPGYTGDNCTNVCNLPCEHQSVCTRKPASPHGYTCECPNP 1860
1861 QY YLGPYCETRIDQPCPRGWGHTPCPCNCDVSKGDFDPCNKTSGECHCKENHYRPPGSPT 1920
1861 Db YLGPYCETRIDQPCPRGWGHTPCPCNCDVSKGDFDPCNKTSGECHCKENHYRPPGSPT 1920
1921 QY CLLCDCYPTGSLSRVCDPEDQCPKGVIGRQCDRCNPPAEVTTNGCEVNYDSCPRAI 1980
1921 Db CLLCDCYPTGSLSRVCDPEDQCPKGVIGRQCDRCNPPAEVTTNGCEVNYDSCPRAI 1980
1981 QY EAGIWWPRTRFGLPAAAPCPKSGFGTAVRHCDHRGMLPNNLFNCTSIITFSELKGFARL 2040
1981 Db EAGIWWPRTRFGLPAAAPCPKSGFGTAVRHCDHRGMLPNNLFNCTSIITFSELKGFARL 2040
2041 QY QRNESGLDSRGSQQLALLRNATQHTAGYFGSDVKVAYQATRLLAHSTQRGFLSATQ 2100
2041 Db QRNESGLDSRGSQQLALLRNATQHTAGYFGSDVKVAYQATRLLAHSTQRGFLSATQ 2100
2101 QY DVHFTENLLRVGSALLDTANKRHWEILCOQTEGGTAWLLQHEVAYASALANMHTYLSPP 2160
2101 Db DVHFTENLLRVGSALLDTANKRHWEILCOQTEGGTAWLLQHEVAYASALANMHTYLSPP 2160
2161 QY TIVTPNIVISVRLDKGNFAGAKLPRYEALRGEQPPDLETTVILPESVFRETTPVVRPAG 2220
2161 Db TIVTPNIVISVRLDKGNFAGAKLPRYEALRGEQPPDLETTVILPESVFRETTPVVRPAG 2220
2221 QY PGEAQEPBELARRQRHPELSQGEAVASVIYRTLAGLLPHNYDDPKRSLRVPKRPINT 2280

2221 Db PGEAQEPBELARRQRHPELSQGEAVASVIYRTLAGLLPHNYDDPKRSLRVPKRPINT 2280
2281 QY PWSISVHDDDELLPRALDKPVTVOFRLLTEERTKPICVFNWHSILVSGTGWARGCE 2340
2281 Db PWSISVHDDDELLPRALDKPVTVOFRLLTEERTKPICVFNWHSILVSGTGWARGCE 2340
2341 QY VVFNESHVSCQCNHMTSFAVLMVDSRRENGEILPLKTLTVVALGVTLAALLTFFFLTL 2400
2341 Db VVFNESHVSCQCNHMTSFAVLMVDSRRENGEILPLKTLTVVALGVTLAALLTFFFLTL 2400
2401 QY LRIILRSNOHGIRRNITAAQLAQLVFLGINQADLPFACTVTAIILLHFLYLCTPSWALLE 2460
2401 Db LRIILRSNOHGIRRNITAAQLAQLVFLGINQADLPFACTVTAIILLHFLYLCTPSWALLE 2460
2461 QY ALHLRYALTEVRDVTNTGPMRFYMLGWPAPFITGLAVGLDPEGYGNPDFCWLSTYDTLI 2520
2461 Db ALHLRYALTEVRDVTNTGPMRFYMLGWPAPFITGLAVGLDPEGYGNPDFCWLSTYDTLI 2520
2521 QY WSPAGPVAFVMSVFLYILAARASCAARQOGPEKKGPVSGLOPSFAVLLLSATWLLAL 2580
2521 Db WSPAGPVAFVMSVFLYILAARASCAARQOGPEKKGPVSGLOPSFAVLLLSATWLLAL 2580
2581 QY LSVNSDITLLPHYLATCNCIOGPFIILSYVVLKSVRKAALKACSRKPSDPALTTKSTL 2640
2581 Db LSVNSDITLLPHYLATCNCIOGPFIILSYVVLKSVRKAALKACSRKPSDPALTTKSTL 2640
2641 QY TSSYNCPSPYADGRLYOPYGDSAGSLHSTSRGKSQPSYIIFLLREESALNPGQPPGLG 2700
2641 Db TSSYNCPSPYADGRLYOPYGDSAGSLHSTSRGKSQPSYIIFLLREESALNPGQPPGLG 2700
2701 QY DPGSLFLEGQDQDHPDPTSDSLSDDDQSGSVASTHSSDESEEEEEEEEAAPPGSQG 2760
2701 Db DPGSLFLEGQDQDHPDPTSDSLSDDDQSGSVASTHSSDESEEEEEEEEAAPPGSQG 2760
2761 QY WDSLGLGCARLPLHSTPKDGGPGKAPWPDGTTAKESGNGCAPERLRENGDALSR 2820
2761 Db WDSLGLGCARLPLHSTPKDGGPGKAPWPDGTTAKESGNGCAPERLRENGDALSR 2820
2821 QY EGSGLPLPGSSAOPHKILKKKCLPTISEKSLRLPLEQCTGSSRGSASGSRGGGPPP 2880
2821 Db EGSGLPLPGSSAOPHKILKKKCLPTISEKSLRLPLEQCTGSSRGSASGSRGGGPPP 2880
2881 QY RPPPRQSLQBLNGVMPMIAMSIKAGTVDEDSGSEFLFFNFH 2923
2881 Db RPPPRQSLQBLNGVMPMIAMSIKAGTVDEDSGSEFLFFNFH 2923

RESULT 5

US-10-120-801-53
; Sequence 53, Application US/10120801
; Publication No. US20030203843A1
; GENERAL INFORMATION:
; APPLICANT: Pena, Carol
; APPLICANT: Guo, Xiaojia
; APPLICANT: Shimkets, Richard
; APPLICANT: Padigaru, Muralidhara
; APPLICANT: Kekuda, Ramesh
; APPLICANT: Spytek, Kimberly
; APPLICANT: Mehraban, Fuad
; APPLICANT: Topper, James N.
; APPLICANT: Malyankar, Uriel
; APPLICANT: Wasserman, Scott
; APPLICANT: Edinger, Shlomit
; APPLICANT: Smithson, Glenda
; APPLICANT: Gunther, Erik
; APPLICANT: Komuves, Laszlo
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-340
; CURRENT APPLICATION NUMBER: US/10/120,801
; CURRENT FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/285748
; PRIOR FILING DATE: 2001-04-23

; PRIOR APPLICATION NUMBER: 60/286068
 ; PRIOR FILING DATE: 2001-04-24
 ; PRIOR APPLICATION NUMBER: 60/286292
 ; PRIOR FILING DATE: 2001-04-25
 ; PRIOR APPLICATION NUMBER: 60/288334
 ; PRIOR FILING DATE: 2001-05-03
 ; PRIOR APPLICATION NUMBER: 60/291241
 ; PRIOR FILING DATE: 2001-05-16
 ; PRIOR APPLICATION NUMBER: 60/322284
 ; PRIOR FILING DATE: 2001-09-14
 ; PRIOR APPLICATION NUMBER: 60/285609
 ; PRIOR FILING DATE: 2001-04-20
 ; NUMBER OF SEQ ID NOS: 155
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 53
 ; LENGTH: 2923
 ; TYPE: PR1
 ; ORGANISM: Drosophila melanogaster
 US-10-120-801-53

Query Match 100.0%; Score 2923; DB 15; Length 2923;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MRSPATGVPLPTPPPPPLLLLLLLLLPPPLGGDQVGPCRSISGSRGSSGACAPMGLCP	60
Db	1	MRSPATGVPLPTPPPPPLLLLLLLLLPPPLGGDQVGPCRSISGSRGSSGACAPMGLCP	60
Qy	61	SASNLWLYTSRCRDAGTGLTGHVPHDGLRVNCPSEAHIPPLPAPEGCPMSCRLLGIG	120
Db	61	SASNLWLYTSRCRDAGTGLTGHVPHDGLRVNCPSEAHIPPLPAPEGCPMSCRLLGIG	120
Qy	121	GHLSPOQKLTLPBHPCLKAPRLRCOSKLAQAPGLRAGERSPEESIGRRKRNVTAPQ	180
Db	121	GHLSPOQKLTLPBHPCLKAPRLRCOSKLAQAPGLRAGERSPEESIGRRKRNVTAPQ	180
Qy	181	FQPSYQATVPENQAGTPVASURADPDDEAGRLTYMDALFDSRNQOFFSLDPTVGA	240
Db	181	FQPSYQATVPENQAGTPVASURADPDDEAGRLTYMDALFDSRNQOFFSLDPTVGA	240
Qy	241	VTTAEELDRKTSHTVFRVTAQDHGMPRRSALATLTLVTDNDHPDVFQEQYKESLRE	300
Db	241	VTTAEELDRKTSHTVFRVTAQDHGMPRRSALATLTLVTDNDHPDVFQEQYKESLRE	300
Qy	301	NLEVGVEVLTVRATGDAPANNAILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREY	360
Db	301	NLEVGVEVLTVRATGDAPANNAILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREY	360
Qy	361	ESYQLTVEASDQGRDPRSTTAAVLSVDEDDNDNAPQSEKEYVQVREDVTPGAPVLR	420
Db	361	ESYQLTVEASDQGRDPRSTTAAVLSVDEDDNDNAPQSEKEYVQVREDVTPGAPVLR	420
Qy	421	VTASDRDKGSNAVHYISMGNGARGQYLDQAQTGALDVVSPLDYETTKYTLRVRAQDGG	480
Db	421	VTASDRDKGSNAVHYISMGNGARGQYLDQAQTGALDVVSPLDYETTKYTLRVRAQDGG	480
Qy	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLSVPLGYLVLVHQAIDADAGNARL	540
Db	481	RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLSVPLGYLVLVHQAIDADAGNARL	540
Qy	541	EYRLAGVGHDPPTTINNGTGWISVAEELDREEDVDFSGVEARDHGTGTPALTASASVTV	600
Db	541	EYRLAGVGHDPPTTINNGTGWISVAEELDREEDVDFSGVEARDHGTGTPALTASASVTV	600
Qy	601	LDVNDNNPTFTQPEYTVRLMEDAAVGTSVTVSAVDRDAHSVITYQITTSNTNRFSITS	660
Db	601	LDVNDNNPTFTQPEYTVRLMEDAAVGTSVTVSAVDRDAHSVITYQITTSNTNRFSITS	660
Qy	661	QSGGGLVSLALPLDYKLERQVLAVTASDGTQDQTAQIVVNVTDANTHRPVFOSSHVTN	720
Db	661	QSGGGLVSLALPLDYKLERQVLAVTASDGTQDQTAQIVVNVTDANTHRPVFOSSHVTN	720
Qy	721	VNEDRPAGTTVVLLSATDEDDTGENARITYFMEDSIPQFRIDADTGA VTTQAEILDYEDQVS	780

Db	721	VNEDRPAGTTVVLLSATDEDDTGENARITYFMEDSIPQFRIDADTGA VTTQAEILDYEDQVS	780
Qy	781	YTLAITARDNGIPOKSDTTTLEILLVNDVNDNAPFLRDSYQGSYVEDVPFTSVLQISAT	840
Db	781	YTLAITARDNGIPOKSDTTTLEILLVNDVNDNAPFLRDSYQGSYVEDVPFTSVLQISAT	840
Qy	841	DRDSLNGRVFTYFGQGGDGDGDFIVESTSGIVTTLRLRDENVVAQVVLAYAVDKGMPP	900
Db	841	DRDSLNGRVFTYFGQGGDGDGDFIVESTSGIVTTLRLRDENVVAQVVLAYAVDKGMPP	900
Qy	901	ARTPMEVTVTVLDVNDNPPVPEQDEFVFEENSPIGLAVARVTATDDEGTNAQIMYQI	960
Db	901	ARTPMEVTVTVLDVNDNPPVPEQDEFVFEENSPIGLAVARVTATDDEGTNAQIMYQI	960
Qy	961	VEGNIPEVFDLIDFSGELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDP	1020
Db	961	VEGNIPEVFDLIDFSGELTALVDLDYEDRPEYVLVIQATSAPLVSRATVHVRLLDRNDP	1020
Qy	1021	PVLGNFEILFNYYTNRSSSPGGAIGRVPAHDPIIDSLSLTYSPERCNELSLVLLNASTG	1080
Db	1021	PVLGNFEILFNYYTNRSSSPGGAIGRVPAHDPIIDSLSLTYSPERCNELSLVLLNASTG	1080
Qy	1081	ELKLSRALDNNRPLEAIVMSVLSDGVHVSVAQCALRVTIITDEMTHSITLRLDMSPER	1140
Db	1081	ELKLSRALDNNRPLEAIVMSVLSDGVHVSVAQCALRVTIITDEMTHSITLRLDMSPER	1140
Qy	1141	FLSPLGLGFIQAAVATLATPPDHVVVFNVDQDTPDGHILNVLSVQPGPGGGPPFL	1200
Db	1141	FLSPLGLGFIQAAVATLATPPDHVVVFNVDQDTPDGHILNVLSVQPGPGGGPPFL	1200
Qy	1201	PSEDLOERLYLNRSLTALSAQVLPFDNNICLREPCENTMRCVSVLRFUSSAPFIASS	1260
Db	1201	PSEDLOERLYLNRSLTALSAQVLPFDNNICLREPCENTMRCVSVLRFUSSAPFIASS	1260
Qy	1261	VLFRPIHPVGLRCRCPPGFTGDCYCEVVDLCYSRPCGPHGRCSRGGYTCCLRDGYTG	1320
Db	1261	VLFRPIHPVGLRCRCPPGFTGDCYCEVVDLCYSRPCGPHGRCSRGGYTCCLRDGYTG	1320
Qy	1321	EHCEVSARSGRCTPGVCKNGTGVNLLVGGPKDCPSGDEPKPYCQVTTTSPFPAHSITP	1380
Db	1321	EHCEVSARSGRCTPGVCKNGTGVNLLVGGPKDCPSGDEPKPYCQVTTTSPFPAHSITP	1380
Qy	1381	RGLRQRFHTLALSFATKERDGLLYNCRFNEKHFVALEVIQEQVLTFSAGESSTTVS	1440
Db	1381	RGLRQRFHTLALSFATKERDGLLYNCRFNEKHFVALEVIQEQVLTFSAGESSTTVS	1440
Qy	1441	PFVPGVSDGQWHTVQLKYNNKPLLGQTLPGQSPSEQVAVVTVDGCDTGVALRFGSVLG	1500
Db	1441	PFVPGVSDGQWHTVQLKYNNKPLLGQTLPGQSPSEQVAVVTVDGCDTGVALRFGSVLG	1500
Qy	1501	NYSCAAQQTQSGSKSLDLTGPLLLGGVDPDLPESFPVVRMRFVGMCMNLQVDSRHIDMAD	1560
Db	1501	NYSCAAQQTQSGSKSLDLTGPLLLGGVDPDLPESFPVVRMRFVGMCMNLQVDSRHIDMAD	1560
Qy	1561	FIANNGTVPCKAKNVCDNCTCHNGTGVNQMDFACEPLGFGGKSCAEMANPOHFL	1620
Db	1561	FIANNGTVPCKAKNVCDNCTCHNGTGVNQMDFACEPLGFGGKSCAEMANPOHFL	1620
Qy	1621	GSSLVAMHGLSLIPISQPMYLSLIMFRTQADGVLLQAITRGRSTITLQLREGHVMSVEGT	1680
Db	1621	GSSLVAMHGLSLIPISQPMYLSLIMFRTQADGVLLQAITRGRSTITLQLREGHVMSVEGT	1680
Qy	1681	GLQASSLLEPRANDGWHHAQALGASGQFGHAILSFYQQRQARAGNLGPRHLGLHLS	1740
Db	1681	GLQASSLLEPRANDGWHHAQALGASGQFGHAILSFYQQRQARAGNLGPRHLGLHLS	1740
Qy	1741	NITVCGIIPGAGGVARGFCGLQGVVSDTPEGVNSLDPHSGESINVEQGSLLPDCDSN	1800
Db	1741	NITVCGIIPGAGGVARGFCGLQGVVSDTPEGVNSLDPHSGESINVEQGSLLPDCDSN	1800
Qy	1801	PCPANSYCSNDWDSYSCSCDFYTGDNCTNVCNLPCEHQSCTRKQSPAGHYTCCECPNP	1860

Db 1801 PCPANSYCSNDWDSYSCSDPGYGDNCNTVCDLNPCEBHSYCTKPSAPHGTYTCECPN 1860
Qy 1861 YLGPYCETRIDQPCPRGWGHTCPGNCDSKSGDPDCKNTSGECKENHYRPPGSPT 1920
Db 1861 YLGPYCETRIDQPCPRGWGHTCPGNCDSKSGDPDCKNTSGECKENHYRPPGSPT 1920
Qy 1921 CLLCDYPTGSLSRVCDPEDGQCPKPGVIGRQCDNCPFAEVTNCEVNYDSCPRAI 1980
Db 1921 CLLCDYPTGSLSRVCDPEDGQCPKPGVIGRQCDNCPFAEVTNCEVNYDSCPRAI 1980
Qy 1981 EAGIWPTRFGLPAAAPCPKSGFCTAVRHCDHRGWLPPNLFNCTSTTFSELKGFABRL 2040
Db 1981 EAGIWPTRFGLPAAAPCPKSGFCTAVRHCDHRGWLPPNLFNCTSTTFSELKGFABRL 2040
Qy 2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLIAHSTQRGFGLSATQ 2100
Db 2041 QRNESGLDSGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLIAHSTQRGFGLSATQ 2100
Qy 2101 DVHFTENLRVGSALLDTANKRHWELIOOTEGGTAWLLQHYEAVASALQANRHTYLSPP 2160
Db 2101 DVHFTENLRVGSALLDTANKRHWELIOOTEGGTAWLLQHYEAVASALQANRHTYLSPP 2160
Qy 2161 TIVTPNIVISVVRDLKGNFAGAKPRYEALRGEQPPDLETTVILPESVFRTPPVVRPAG 2220
Db 2161 TIVTPNIVISVVRDLKGNFAGAKPRYEALRGEQPPDLETTVILPESVFRTPPVVRPAG 2220
Qy 2221 PGEAQEPPELARRQRHPPELSQGEAVASVVIYRTLGLLPHNYDPDKSLRVPKRPINT 2280
Db 2221 PGEAQEPPELARRQRHPPELSQGEAVASVVIYRTLGLLPHNYDPDKSLRVPKRPINT 2280
Qy 2281 PVVISVHDDRELLPRALDKVTVQFRLLEETKPKICVFNWHSILVSGTGWARGCE 2340
Db 2281 PVVISVHDDRELLPRALDKVTVQFRLLEETKPKICVFNWHSILVSGTGWARGCE 2340
Qy 2341 VVFNESHVSQCCHMTSFAVLMDSVRENGEILPKTLTIVVALGVTLAALLFFFLTL 2400
Db 2341 VVFNESHVSQCCHMTSFAVLMDSVRENGEILPKTLTIVVALGVTLAALLFFFLTL 2400
Qy 2401 LRILRSNHQIRRNLTAAALGLAQLVFLIGINQADLPFACTVAILLHPYLCITFSWALLE 2460
Db 2401 LRILRSNHQIRRNLTAAALGLAQLVFLIGINQADLPFACTVAILLHPYLCITFSWALLE 2460
Qy 2461 ALHLYRALTEVRDVTNGMRVYMLGWGVPFAITGLAVGLDPEGVGNPDFCWLSIYDTLI 2520
Db 2461 ALHLYRALTEVRDVTNGMRVYMLGWGVPFAITGLAVGLDPEGVGNPDFCWLSIYDTLI 2520
Qy 2521 WSFAGPAPAFVMSVFLYLAAASCAAOQGFKKGPVSGLOPSFVALLLSATWLLAL 2580
Db 2521 WSFAGPAPAFVMSVFLYLAAASCAAOQGFKKGPVSGLOPSFVALLLSATWLLAL 2580
Qy 2581 LSVNSDTLLPHYLFCATNCIQGPFIFLSYVVLSEKVRKALKACSRKPSDPALTTKSTL 2640
Db 2581 LSVNSDTLLPHYLFCATNCIQGPFIFLSYVVLSEKVRKALKACSRKPSDPALTTKSTL 2640
Qy 2641 TSSYNCSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPFLIRRESALNPGQPPGLG 2700
Db 2641 TSSYNCSPYADGRLYQPYGDSAGSLHSTSRSGKSQPSYIPFLIRRESALNPGQPPGLG 2700
Qy 2701 DPGSLFLEGQDQHQDDPTDSDLSLEDQSGSYASTHSSDSESEEEEEEAPPGEQ 2760
Db 2701 DPGSLFLEGQDQHQDDPTDSDLSLEDQSGSYASTHSSDSESEEEEEEAPPGEQ 2760
Qy 2761 WDSLGLFGAERLPLHSTPKDGGPGKAPWPGDFGTAKSSGNGAPERLRENGDALSR 2820
Db 2761 WDSLGLFGAERLPLHSTPKDGGPGKAPWPGDFGTAKSSGNGAPERLRENGDALSR 2820
Qy 2821 EGSGLPLPGSSAQPHKGLKKCLPTTISEKSLRLRLPLEQCTGSSRGSSASESGRGGPPP 2880
Db 2821 EGSGLPLPGSSAQPHKGLKKCLPTTISEKSLRLRLPLEQCTGSSRGSSASESGRGGPPP 2880
Qy 2881 RPPRQSLQEQNLGVMPIAMSIKAGTVDEDSGSEFLFFFNFLH 2923
Db 2881 RPPRQSLQEQNLGVMPIAMSIKAGTVDEDSGSEFLFFFNFLH 2923

RESULT 6

US-10-292-798-932
; Sequence 932, Application US/10292798
; Publication No. US20030235933A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: GUANOSINE TRIPHOSPHATE-BINDING PROTEIN COUPLED RECEPTORS
; FILE REFERENCE: 084335/166
; CURRENT APPLICATION NUMBER: US/10/292,798
; CURRENT FILING DATE: 2002-11-13
; PRIOR FILING DATE: 10/017,161
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: JP 2001-246789
; NUMBER OF SEQ ID NOS: 2070
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 932
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-292-798-932

Query Match 100.0%; Score 2923; DB 15; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MRSPTATGVPPTPPPPPLLLLLLLLLPPPLLDGQVQPCRSLSGRSGSGGACAPMGWLCP 60
Db 1 MRSPTATGVPPTPPPPPLLLLLLLLLPPPLLDGQVQPCRSLSGRSGSGGACAPMGWLCP 60
Qy 61 SASNLWLYTSRCDAGTGTCHLVPHDGLRVWCPESEAHILPLPAPGCGPWCSCLLGIG 120
Db 61 SASNLWLYTSRCDAGTGTCHLVPHDGLRVWCPESEAHILPLPAPGCGPWCSCLLGIG 120
Qy 121 GHLSPOQKLTLPESHPCLKAPRLRCQSKLAQAQPLRAGERSPESLGRKRNNVNTAPQ 180
Db 121 GHLSPOQKLTLPESHPCLKAPRLRCQSKLAQAQPLRAGERSPESLGRKRNNVNTAPQ 180
Qy 181 FQPPSYQATVPENQAGTTPVASLRAIDPDEGEAGRLTYMDALFDSRSNQFFSLDPVTGA 240
Db 181 FQPPSYQATVPENQAGTTPVASLRAIDPDEGEAGRLTYMDALFDSRSNQFFSLDPVTGA 240
Qy 241 VTTAEELDRKTHVFRVTAQDHGMPRRSALATILITVTNDHDPVFEQOEYKESLRE 300
Db 241 VTTAEELDRKTHVFRVTAQDHGMPRRSALATILITVTNDHDPVFEQOEYKESLRE 300
Qy 301 NLEVGYEVLTVRATDGPAPNANILYRLLEGSGGSPSRVFEIDPRSGVIRTRGPVDREEV 360
Db 301 NLEVGYEVLTVRATDGPAPNANILYRLLEGSGGSPSRVFEIDPRSGVIRTRGPVDREEV 360
Qy 361 ESQVLTAEASDQGRDPGRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREDDVTPGAPVLR 420
Db 361 ESQVLTAEASDQGRDPGRSTTAAVFLSVEDDNDNAPQFSEKRYVQVREDDVTPGAPVLR 420
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Qy 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPQATVLESVPLGLVHLVQAIADADAGDNARL 540
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Qy 541 EYRLAGVGHDFPPTINNGTGWISVAEELDREEDVDFYSGVEARDHGTPTALTASASVTV 600
Db 541 EYRLAGVGHDFPPTINNGTGWISVAEELDREEDVDFYSGVEARDHGTPTALTASASVTV 600
Qy 601 LDVNDNNPTTQPEYTVRLNEDAAVGTSVTVTSVAVDRAHVSITYQITSGNTRNRFSTTS 660
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Db 601 LDVNDNNPTQPEYTVRLNEDAAVGTSVTVSAVDRDAHSVITYQITSGNTRNRPSITS 660
Qy 661 QSGGGLVSLALPLDYLKLEROYVLAVTASDCGTRODTAQIIVNVTDANTHRPVQSSHYYTN 720
Db 661 QSGGGLVSLALPLDYLKLEROYVLAVTASDCGTRODTAQIIVNVTDANTHRPVQSSHYYTN 720
Qy 721 VNEDRPAGTIVLISATDEDTGENARITYFMEBSIIPQFRIDADTGAVTTQAEILDYEDQVS 780
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Qy 781 YTLAITARDNGIPKQSDTTTLEILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISAT 840
Db 781 YTLAITARDNGIPKQSDTTTLEILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISAT 840
Qy 841 DRDSGLNGRVYFTQGGDDGDDGDFIVESTSGIVRTLRRLDRENVAYVLRAYAVDKGMP 900
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Qy 961 VEGNIPEVFQLDIPSGELTALVDLYEDRPEYVLVIQATSAPLVSRATVHRLDRNDNP 1020
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Db 1081 ELKLSRALDNNRPLEATMSVLSDGVHSTVAQCALRVITITDEMLTHSTITLRLEDMSPER 1140
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Db 1141 FLSPLLGLFIQAAVATLATPDDHVNVENVQDTPDAPGCHILNLSVSGPPGPGGPPFL 1200
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Qy 1801 PCPANSYCSNDWDYSYSCSDPGYIYGDNCTNVCDLNPCEHOSVCTRKPSPAGHYTCECPNP 1860
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Db 2041 QRNESGLDGRSQQLALLRNATQHTAGYFGSDVKVAYQIATRLLAHESQRGFGLSATQ 2100
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Db 2161 TIVTPNIVISVVRLDKGNFAGAKLPRYEALRGEOPDLETTVILPESVFRETTPVVRPAG 2220
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Db 2221 PGEAQEPBELARRORRHPELSOGGEAVASVIIYRTLGLLPHNYDPRGRSLRVPKRPINT 2280
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Db 2281 PVWSISVHDDRELLPRALDKPVTVOFRLLEETTKPICVFWNHSILVSGTGWSARGCE 2340
Qy 2341 VVFNESHVSQCQNHMTSFAVLMDVSRRENGEIILPLKTLTYVALGVTLAALLLTFPFLTL 2400
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Db 2461 ALHLRYALTEVRDVTNGPMRFYVYMLGWPAPFITGLAVGLDPEGYNPDCFWLISIYDTLI 2520
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Db 2581 LSVNSDITLLFHYLFATNCIOGPPIFILSYVVLSEVKRKALKACSRKPSPPALTTKSTL 2640
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Db 2881 RPPRQSLQEQNLGVMPIAMSIKAGTVDEDSGSGSEFLFFNFILH 2923

RESULT 7

US-10-038-854-70
; Sequence 70, Application US/10038854
; Publication No: US20040022781A1
; GENERAL INFORMATION:
; APPLICANT: Spytek, Kimberly A
; APPLICANT: Li, Li
; APPLICANT: Wolenc, Adam R
; APPLICANT: Vernet, Corine
; APPLICANT: Eise, Andrew J
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; APPLICANT: Malyankar, Uriel M
; APPLICANT: Shimkets, Richard A
; APPLICANT: Tchernev, Velizar
; APPLICANT: Spaderna, Steven K
; APPLICANT: Gorman, Linda
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; APPLICANT: Gusev, Vladimir Y
; APPLICANT: Gangolli, Esba A
; APPLICANT: Guo, Xiaojia S
; APPLICANT: Shenoy, Suresh G
; APPLICANT: Rastelli, Luca
; APPLICANT: Casman, Stacie J
; APPLICANT: Boldog, Ferenc
; APPLICANT: Burgess, Catherine E
; APPLICANT: Edinger, Shlomit R
; APPLICANT: Ellerman, Karen
; APPLICANT: Gunther, Erik
; APPLICANT: Smithson, Glenda
; APPLICANT: Millet, Isabelle
; APPLICANT: MacDougall, John R
; TITLE OF INVENTION: Proteins and Nucleic Acids Encoding Same
; FILE REFERENCE: 21402-230
; CURRENT APPLICATION NUMBER: US/10/038,854
; CURRENT FILING DATE: 2003-01-22
; PRIOR APPLICATION NUMBER: 60/258,928
; PRIOR FILING DATE: 2000-12-29
; PRIOR APPLICATION NUMBER: 60/259,415
; PRIOR FILING DATE: 2001-01-02
; PRIOR APPLICATION NUMBER: 60/259,785
; PRIOR FILING DATE: 2001-01-04
; PRIOR APPLICATION NUMBER: 60/269,814
; PRIOR FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 60/279,832
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,833
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/279,863
; PRIOR FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/283,889
; PRIOR FILING DATE: 2001-04-13
; PRIOR APPLICATION NUMBER: 60/284,447
; PRIOR FILING DATE: 2001-04-18
; PRIOR APPLICATION NUMBER: 60/286,683
; PRIOR FILING DATE: 2001-04-25
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 411
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 70
; LENGTH: 2923
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-038-854-70

Query Match 100.0%; Score 2923; DB 15; Length 2923;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2923; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy 2821 EGSGLGPLGSSAQPHKGLKCKLPTTISEKSSLLRPLEQCTGSSRGSSASESGRGGPPP 2880
Db 2821 EGSGLGPLGSSAQPHKGLKCKLPTTISEKSSLLRPLEQCTGSSRGSSASESGRGGPPP 2880
Qy 2881 RPPPRQSLQEOQLNGVMPITAMSIKAGTVDESDSGSEFLFFNFPLH 2923
Db 2881 RPPPRQSLQEOQLNGVMPITAMSIKAGTVDESDSGSEFLFFNFPLH 2923

RESULT 8

US-09-788-711A-2
; Sequence 2, Application US/09788711A
; Patent No. US20020058328A1
; GENERAL INFORMATION:
; APPLICANT: Tania Tamsin Testa
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP-30225
; CURRENT APPLICATION NUMBER: US/09/788.711A
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 0004196.2
; PRIOR FILING DATE: 2000-02-19
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 2956
; TYPE: PRT

ORGANISM: HOMO SAPIENS
US-09-788-711A-2

Query Match 97.1%; Score 2837; DB 9; Length 2956;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2837; Conservative 0; Mismatches 0; Indels ~ 0; Gaps 0;

QY 1 MRSPTAGVPLPTPPPPPLLLLLLLLLPPPLLDGQVPCRSLSRGSGGACAPMGWLCP 60
DB 1 MRSPTAGVPLPTPPPPPLLLLLLLLLPPPLLDGQVPCRSLSRGSGGACAPMGWLCP 60
QY 61 SASNLWLTSCRDAGTGLTHLVPHDGLRWCPCESEAHPLPAPGCPWCKLLGIG 120
DB 61 SASNLWLTSCRDAGTGLTHLVPHDGLRWCPCESEAHPLPAPGCPWCKLLGIG 120
QY 121 GHLSPQKLTLPPEHPCLKAPRLRCQSKLAQAPGLRAGERSPEESLGRKRKNVNTAPQ 180
DB 121 GHLSPQKLTLPPEHPCLKAPRLRCQSKLAQAPGLRAGERSPEESLGRKRKNVNTAPQ 180
QY 181 FQPSYQATVPENQAGTPVASLRAIDPDEBAGRLTYTMDALFDSRNQPFSLDPVTGA 240
DB 181 FQPSYQATVPENQAGTPVASLRAIDPDEBAGRLTYTMDALFDSRNQPFSLDPVTGA 240
QY 241 VTTAEELDRETKSTHVRVTAQDHGMPPRSALATLTILVTDTNDHDPVFEQOEKESLRE 300
DB 241 VTTAEELDRETKSTHVRVTAQDHGMPPRSALATLTILVTDTNDHDPVFEQOEKESLRE 300
QY 301 NLEVGVEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREEV 360
DB 301 NLEVGVEVLTVRATDGDAPPNANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPVDREEV 360
QY 361 ESYQLTVEASQGRDPGRSTAAVFLSVEDDNDNAPQSEKRYVQVQVREDVTPGAPVLR 420
DB 361 ESYQLTVEASQGRDPGRSTAAVFLSVEDDNDNAPQSEKRYVQVQVREDVTPGAPVLR 420
QY 421 VTASDRDGSNAVHYSIMSGNARGQFYLDAGTGALDVVSPLDYETTKETLRAQDGG 480
DB 421 VTASDRDGSNAVHYSIMSGNARGQFYLDAGTGALDVVSPLDYETTKETLRAQDGG 480
QY 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLVHLVQAIADADAGDNARL 540
DB 481 RPPLSNVSGLVTVQVLDINDNAPIFVSTPFOATVLESVPLGLVHLVQAIADADAGDNARL 540
QY 541 EYRLAGVGHDPFTINNGTGMISVAEELDREVDYFSPGVEARDHGTPTALASASVTV 600
DB 541 EYRLAGVGHDPFTINNGTGMISVAEELDREVDYFSPGVEARDHGTPTALASASVTV 600
QY 601 LDVNDNPTFTQPEYTVLNEADAAGTSVTVSAVDRDAHSVITYQITSGNTRNRFSTIS 660
DB 601 LDVNDNPTFTQPEYTVLNEADAAGTSVTVSAVDRDAHSVITYQITSGNTRNRFSTIS 660
QY 661 QSGGGLVSLALPLDYKLERQVVLAVTASDGTQDQTAQIVNVNTDANTHRPVFQSSHVTN 720
DB 661 QSGGGLVSLALPLDYKLERQVVLAVTASDGTQDQTAQIVNVNTDANTHRPVFQSSHVTN 720
QY 721 VNEDRPAQTIVVLISATDEDTGENARITYFMEDSIPOFRIDADTCAVTTQAELEDYEQVS 780
DB 721 VNEDRPAQTIVVLISATDEDTGENARITYFMEDSIPOFRIDADTCAVTTQAELEDYEQVS 780
QY 781 YTLAITARDNGIPKSDTITYLEILVNDVNDNAPQFLRDSYQGVVEDVPPFTSVLQISAT 840
DB 781 YTLAITARDNGIPKSDTITYLEILVNDVNDNAPQFLRDSYQGVVEDVPPFTSVLQISAT 840
QY 841 DRDGLGRVFTYFQGGDGDGDFIVESTSGIVRTLRLDRENVAAQVVLAYAVDKMPP 900
DB 841 DRDGLGRVFTYFQGGDGDGDFIVESTSGIVRTLRLDRENVAAQVVLAYAVDKMPP 900
QY 901 ARTPMETVTVLVDNDNPPVFEQDEFVFEENSPIGLAVARTATDPDEGTNAQIMYQI 960
DB 901 ARTPMETVTVLVDNDNPPVFEQDEFVFEENSPIGLAVARTATDPDEGTNAQIMYQI 960
QY 961 VEGNIPVQFQDIFSGELTALVDLYEDRPEYVLVIQATSAPLVSRATVHVRLLDNDNP 1020

DB 961 VEGNIPVQFQDIFSGELTALVDLYEDRPEYVLVIQATSAPLVSRATVHVRLLDNDNP 1020
QY 1021 PVLGNFEILFNNTNRSSSPFGGAIGRVPAHDPDISDLSITYSFERGNELSVLVLLNASTG 1080
DB 1021 PVLGNFEILFNNTNRSSSPFGGAIGRVPAHDPDISDLSITYSFERGNELSVLVLLNASTG 1080
QY 1081 ELKLSRALDNNRPLEATMSVLVSDGVHSVTAQCALRVIIITDEMLTHSITLRLDMSPPR 1140
DB 1081 ELKLSRALDNNRPLEATMSVLVSDGVHSVTAQCALRVIIITDEMLTHSITLRLDMSPPR 1140
QY 1141 FLSPILGLIFQAVATLATPPDHVVFNVDQTDAPGGHILNVLSVQPPGPGGPPPL 1200
DB 1141 FLSPILGLIFQAVATLATPPDHVVFNVDQTDAPGGHILNVLSVQPPGPGGPPPL 1200
QY 1201 PSEDQLERLYLNRSLTALSAQVLPFDNCLREPCENYMRCSVSLRFDSSAPFIASS 1260
DB 1201 PSEDQLERLYLNRSLTALSAQVLPFDNCLREPCENYMRCSVSLRFDSSAPFIASS 1260
QY 1261 VLFPIHPVGLRCRCPPGFTGDCETRVDI.CYSRPCPGPHGRCSRREGGYTCLCRDGYTG 1320
DB 1261 VLFPIHPVGLRCRCPPGFTGDCETRVDI.CYSRPCPGPHGRCSRREGGYTCLCRDGYTG 1320
QY 1321 EHCVSARSGRCTPGVCKNGGTCVNLVVGKPCDCPSGDPFKPYCOVTRFPFAHSFITF 1380
DB 1321 EHCVSARSGRCTPGVCKNGGTCVNLVVGKPCDCPSGDPFKPYCOVTRFPFAHSFITF 1380
QY 1381 RGLRQRFHTLALSFAATKERDGLLLYNGRFNEKHDFALEVIQEQVLTFSAGESSTTVS 1440
DB 1381 RGLRQRFHTLALSFAATKERDGLLLYNGRFNEKHDFALEVIQEQVLTFSAGESSTTVS 1440
QY 1441 PFVPGVSDGQWHTVQLKYNNKPLLGOTGLPGQSPSEQKVAVTVVDGCDTGVALRFGSVLG 1500
DB 1441 PFVPGVSDGQWHTVQLKYNNKPLLGOTGLPGQSPSEQKVAVTVVDGCDTGVALRFGSVLG 1500
QY 1501 NYSCAAQGTGGSKKSLDLTGPLLLGGVPDLPESPVPMRQFVGMRLNVQDSRHIDMAD 1560
DB 1501 NYSCAAQGTGGSKKSLDLTGPLLLGGVPDLPESPVPMRQFVGMRLNVQDSRHIDMAD 1560
QY 1561 FIANNGTVPKPAKNCVDSNTCHNGGTCVNWDAFSCCEPLFGFGKSCAEMANPOHFL 1620
DB 1561 FIANNGTVPKPAKNCVDSNTCHNGGTCVNWDAFSCCEPLFGFGKSCAEMANPOHFL 1620
QY 1621 GSSILVAVHGLSLPISQPYWLSLMEFRTRQADGVLLQAITRGRSTITLQLRBEGHVMLSVSGT 1680
DB 1621 GSSILVAVHGLSLPISQPYWLSLMEFRTRQADGVLLQAITRGRSTITLQLRBEGHVMLSVSGT 1680
QY 1681 GLQASSLRLBEPGRANDGDWHHAQALGASGPGHAILLSFDYQQAQRAEGLNGLRLHGLHLS 1740
DB 1681 GLQASSLRLBEPGRANDGDWHHAQALGASGPGHAILLSFDYQQAQRAEGLNGLRLHGLHLS 1740
QY 1741 NITVGGIPGAGGVARGFRGCLQGVVSDTPEGVNSLDPSSHGESINVRQGCSLPDPCCSN 1800
DB 1741 NITVGGIPGAGGVARGFRGCLQGVVSDTPEGVNSLDPSSHGESINVRQGCSLPDPCCSN 1800
QY 1801 PCPANSYCSNDWDSYSCSDPGYYGDNCTNVCNLPCEHQSVCYTRKPSAPHGYTCECPN 1860
DB 1801 PCPANSYCSNDWDSYSCSDPGYYGDNCTNVCNLPCEHQSVCYTRKPSAPHGYTCECPN 1860
QY 1861 YLGPYCESTRIDQPCPRGWGHPTGCPNCVSKGFPDPCNKTSGECHCKENHYRPPGSP 1920
DB 1861 YLGPYCESTRIDQPCPRGWGHPTGCPNCVSKGFPDPCNKTSGECHCKENHYRPPGSP 1920
QY 1921 CLLCDCYPTGSLSVCDPEDGQCPKPGVIGRQCDRCNDNPPFAEVTNNGCEVNYDSCPRAI 1980
DB 1921 CLLCDCYPTGSLSVCDPEDGQCPKPGVIGRQCDRCNDNPPFAEVTNNGCEVNYDSCPRAI 1980
QY 1981 EAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCDHEHGMWLPNPLFNCTSTTFSELKGFABRL 2040
DB 1981 EAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCDHEHGMWLPNPLFNCTSTTFSELKGFABRL 2040
QY 2041 QRNESGLDGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFLSATQ 2100
DB 2041 QRNESGLDGRSQQLALLRNATQHTAGYFGSDVKVAYQLATRLLAHSTQRGFLSATQ 2100

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Qy 2101 DVHFTENLLRVSALLDTANKRWELIQQTEGCTAMLLQHYEAYASALAAQNMRHTYLSPP 2160
Db 2101 DVHFTENLLRVSALLDTANKRWELIQQTEGCTAMLLQHYEAYASALAAQNMRHTYLSPP 2160
Qy 2161 TIVTPNIVISVRLDKGNFAGAKLPRYEALRGQPPDLETTTIVLPESVFRETPPVVRPAG 2220
Db 2161 TIVTPNIVISVRLDKGNFAGAKLPRYEALRGQPPDLETTTIVLPESVFRETPPVVRPAG 2220
Qy 2221 PGEAQEPEELARRQRHPELISQGEAVASVIIYRTLAGLPHNTYDPPKRSIRVPRPIINT 2280
Db 2221 PGEAQEPEELARRQRHPELISQGEAVASVIIYRTLAGLPHNTYDPPKRSIRVPRPIINT 2280
Qy 2281 PVVSIHVHDDDEELLPRALDKPVTQFELLETERTKPICVFNWHSILVSGTGSGWARGCE 2340
Db 2281 PVVSIHVHDDDEELLPRALDKPVTQFELLETERTKPICVFNWHSILVSGTGSGWARGCE 2340
Qy 2341 VVFNESHVSCQCNHMTSFVALLMDVSRRENGEILPLKLTYYVALGVTLAALLITFFFLTL 2400
Db 2341 VVFNESHVSCQCNHMTSFVALLMDVSRRENGEILPLKLTYYVALGVTLAALLITFFFLTL 2400
Qy 2401 LRILRSNQHGRIRNLTAAAGLQVFLLLGINQADLPFACTVIAILLHFLYLCPTFWALLLE 2460
Db 2401 LRILRSNQHGRIRNLTAAAGLQVFLLLGINQADLPFACTVIAILLHFLYLCPTFWALLLE 2460
Qy 2461 ALHLRYALTEVRDVTGPMRFYMYLWGVPVAFITGLAVGLDPGEGYGNPDPFCWLSIYDTLI 2520
Db 2461 ALHLRYALTEVRDVTGPMRFYMYLWGVPVAFITGLAVGLDPGEGYGNPDPFCWLSIYDTLI 2520
Qy 2521 WSPAGVAFVMSVFLYILAAARASCAAOQGEKGPVSGLOPSPFAVILLISATWLLAL 2580
Db 2521 WSPAGVAFVMSVFLYILAAARASCAAOQGEKGPVSGLOPSPFAVILLISATWLLAL 2580
Qy 2581 LSVNSDTLLPHYLPAFCNCIQGPPIFLSVYVLSKEVRKALKACSRKPSDPDPALTTKSTL 2640
Db 2581 LSVNSDTLLPHYLPAFCNCIQGPPIFLSVYVLSKEVRKALKACSRKPSDPDPALTTKSTL 2640
Qy 2641 TSSVNCPSPADGRLYQPGDSAGSLHSTRSGKSQPSYIPFLIRREESALNPGQPPGLG 2700
Db 2641 TSSVNCPSPADGRLYQPGDSAGSLHSTRSGKSQPSYIPFLIRREESALNPGQPPGLG 2700
Qy 2701 DPGSLFLEGQDQDHPDPTSDSDLSLEDQSGSVASTHSSDSEEEEEEAAFPGEQG 2760
Db 2701 DPGSLFLEGQDQDHPDPTSDSDLSLEDQSGSVASTHSSDSEEEEEEAAFPGEQG 2760
Qy 2761 WDSLLGFGAERLPLHSTPKDGGPGKAPWPGFGTTAKESSGNGAPERLRNGDALSR 2820
Db 2761 WDSLLGFGAERLPLHSTPKDGGPGKAPWPGFGTTAKESSGNGAPERLRNGDALSR 2820
Qy 2821 EGSIGLPLPGSSAOPHKG 2837
Db 2821 EGSIGLPLPGSSAOPHKG 2837

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RESULT 9

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US-10-276-774-1774
; Sequence 1774, Application US/10276774
; Publication No. US20040053245A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; APPLICANT: Tang, Y, Tom et al
; TITLE OF INVENTION: No. US20040053245A1el Nucleic Acids and Polypeptides
; FILE REFERENCE: 21272-030
; CURRENT APPLICATION NUMBER: US/10/276, 774
; PRIOR FILING DATE: 2002-11-18
; PRIOR APPLICATION NUMBER: 09/560, 875
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 09/496, 914
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 2700
; SOFTWARE: Custom
; SEQ ID NO 1774
; LENGTH: 2560

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; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(2560)
; OTHER INFORMATION: Xaa = any amino acid or nothing
US-10-276-774-1774

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Query Match 69.0%; Score 2018; DB 15; Length 2560;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2318; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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Qy 380 STTAAVFLSVEDDDNDNAPQFSEKYYVQVREDVTPGAPVLRVTASDRDKGSNAVHYISIM 439
Db 13 STTAAVFLSVEDDDNDNAPQFSEKYYVQVREDVTPGAPVLRVTASDRDKGSNAVHYISIM 72
Qy 440 SGNARGQYLDQAQTGALDQVWSPLDYETTKETTLRVAQDQGRPPLSNVSGLVTVQVLDIN 499
Db 73 SGNARGQYLDQAQTGALDQVWSPLDYETTKETTLRVAQDQGRPPLSNVSGLVTVQVLDIN 132
Qy 500 DNAPIFVSTPQATVLSVPLGYLVHVOATDADAGDNARLEVLACVGHDFPFTINNGT 559
Db 133 DNAPIFVSTPQATVLSVPLGYLVHVOATDADAGDNARLEVLACVGHDFPFTINNGT 192
Qy 560 GWISVAEELDREEDVDFSGVEARDHGTPTALTASASVSVTVLDVNDNNPTTQPEYTVRL 619
Db 193 GWISVAEELDREEDVDFSGVEARDHGTPTALTASASVSVTVLDVNDNNPTTQPEYTVRL 252
Qy 620 NEDAAVGSVVTVSAVDRDAHSVITYQITSGNTRNRFISITSQSGGLVSLALPLDYKLER 679
Db 253 NEDAAVGSVVTVSAVDRDAHSVITYQITSGNTRNRFISITSQSGGLVSLALPLDYKLER 312
Qy 680 QYVLAVTASDGTRODTAQIVVNVTDANTHRPVFOSSHVTNNVEDRPACTTVVLSATDE 739
Db 313 QYVLAVTASDGTRODTAQIVVNVTDANTHRPVFOSSHVTNNVEDRPACTTVVLSATDE 372
Qy 740 DTGENARITYFMEDSIPQFRIDADTGAVTQAEILDYEDQVSYTLAITARONGIPQKSDTT 799
Db 373 DTGENARITYFMEDSIPQFRIDADTGAVTQAEILDYEDQVSYTLAITARONGIPQKSDTT 432
Qy 800 YLEILVNDVNDNAPQFLRDSYQGSVYEDVPPTSVLQISATDRDSGLNGRVFYTFQGGDD 859
Db 433 YLEILVNDVNDNAPQFLRDSYQGSVYEDVPPTSVLQISATDRDSGLNGRVFYTFQGGDD 492
Qy 860 GDGDFIVESTSGIVRTLRRLDRENVAVQLRAYAVDKGMPARTPMEVTVTVLDVNDNPP 919
Db 493 GDGDFIVESTSGIVRTLRRLDRENVAVQLRAYAVDKGMPARTPMEVTVTVLDVNDNPP 552
Qy 920 VFEQDEFDFVFEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIPEVFOLDIFSGELT 979
Db 553 VFEQDEFDFVFEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIPEVFOLDIFSGELT 612
Qy 980 ALVLDLYEDRPEYVLVIQATSAPLVSRAVTVHRLDNDNDPPVLGNFEILFNNTVTRSS 1039
Db 613 ALVLDLYEDRPEYVLVIQATSAPLVSRAVTVHRLDNDNDPPVLGNFEILFNNTVTRSS 672
Qy 1040 SPFGAIGRVPAHDPDISDSLTYSFERNELSLVLLNASTGELKLSRALDNNRPLEATMS 1099
Db 673 SPFGAIGRVPAHDPDISDSLTYSFERNELSLVLLNASTGELKLSRALDNNRPLEATMS 732
Qy 1100 VLVSGVHSVTAQAALRVIIITDEMILTHSITLRLEDMSPERFLSPPLGLFLTQVAATLAT 1159
Db 733 VLVSGVHSVTAQAALRVIIITDEMILTHSITLRLEDMSPERFLSPPLGLFLTQVAATLAT 792
Qy 1160 PPDHVVFVNQDRTDAPGCHILNVSLSVQPGPGGGPPFTLPSEDLOERLYLNRSLLTAI 1219
Db 793 PPDHVVFVNQDRTDAPGCHILNVSLSVQPGPGGGPPFTLPSEDLOERLYLNRSLLTAI 852
Qy 1220 SAQRVLPDDNICLREPCENYMCVSVLRFDSSAPFTASSSVLRPHVPGGLRCRCPPG 1279
Db 853 SAQRVLPDDNICLREPCENYMCVSVLRFDSSAPFTASSSVLRPHVPGGLRCRCPPG 912
Qy 1280 FTGDYCETEVDLCYSRPCGPHGRCRREGGYTCLCRDGYTGCEHCEVSARSGRCTPGVCKN 1339

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Db 913 FTGDCYCEVTEVDLCYSRPCPHGRCSREGYTCCLCRDGYTGHCVSARSGRCTGVCNK 972
Qy 1340 GGTGCVNLLVGGFKCPCSGDFEKPYCQVTRTSFPAHSFITFRGLRQRHFHTLALSPATKE 1399
Db 973 GGTGCVNLLVGGFKCPCSGDFEKPYCQVTRTSFPAHSFITFRGLRQRHFHTLALSPATKE 1032
Qy 1400 RDGLLLYNGRFEKHDFALEVIQSQVLTFSAGESTTTVSFPVGGVSDGQHWHTVQLKY 1459
Db 1033 RDGLLLYNGRFEKHDFALEVIQSQVLTFSAGESTTTVSFPVGGVSDGQHWHTVQLKY 1092
Qy 1460 YNKPILLGOTGLPQGSSEOKVAVVTVGDCDTGVALRFGSVLGNVSCAAQTQGSKKSLDL 1519
Db 1093 YNKPILLGOTGLPQGSSEOKVAVVTVGDCDTGVALRFGSVLGNVSCAAQTQGSKKSLDL 1152
Qy 1520 TGPLLLGGVDPDLPESFPVVRMRQFVGMRLQVDSRHIDMADFIANNGTVPVPCPAKKNVCD 1579
Db 1153 TGPLLLGGVDPDLPESFPVVRMRQFVGMRLQVDSRHIDMADFIANNGTVPVPCPAKKNVCD 1212
Qy 1580 SNTCHNGTGVNDWDAFSCCEPLGFGKSCAQEMANPOHFLGSSLVAMHGLSLPISQPMY 1639
Db 1213 SKTCHNGTGVNDWDAFSCCEPLGFGKSCAQEMANPOHFLGSSLVAMHGLSLPISQPMY 1272
Qy 1640 LSLMFRTRQADGVLLQATIRGRSTITLQREGHVMSVEGTGLQASSLRLEPRANDGDW 1699
Db 1273 LSLMFRTRQADGVLLQATIRGRSTITLQREGHVMSVEGTGLQASSLRLEPRANDGDW 1332
Qy 1700 HHAQALGASGPGHAILSFYDGOORAEGLNLPRLHGLHLSNITVGGIPGAGGVARGFR 1759
Db 1333 HHAQALGASGPGHAILSFYDGOORAEGLNLPRLHGLHLSNITVGGIPGAGGVARGFR 1392
Qy 1760 GCLQVRVSDTPPEGVNSLDPHSGESINVEQGSLLPDCDSNCPANVSCNNDWDSYSCC 1819
Db 1393 GCLQVRVSDTPPEGVNSLDPHSGESINVEQGSLLPDCDSNCPANVSCNNDWDSYSCC 1452
Qy 1820 DPGYGDCTNVCDLNPCEHOSVCTRKPSAPHYTCCEPNVLYGCPYCETRIDQPCPRGMW 1879
Db 1453 DPGYGDCTNVCDLNPCEHOSVCTRKPSAPHYTCCEPNVLYGCPYCETRIDQPCPRGMW 1512
Qy 1880 GHPTCGPCNCDVSKGDFDPCNKTSCECHKENHYRPPGSPCTCLLDCDCTPTGSLRVCDE 1939
Db 1513 GHPTCGPCNCDVSKGDFDPCNKTSCECHKENHYRPPGSPCTCLLDCDCTPTGSLRVCDE 1572
Qy 1940 DQCPCKPGVIGROCDRCDNPAEVTTCNGCEVNDYSCPRAEAGIWMVPRTRFGLPAAAPC 1999
Db 1573 DQCPCKPGVIGROCDRCDNPAEVTTCNGCEVNDYSCPRAEAGIWMVPRTRFGLPAAAPC 1632
Qy 2000 PKSGFGTAVRCHDEHGWLPNLFNCTSIITSELKGFARLQNESGLDSRQOALALL 2059
Db 1633 PKSGFGTAVRCHDEHGWLPNLFNCTSIITSELKGFARLQNESGLDSRQOALALL 1692
Qy 2060 RNATQHTAGYFGSDVKVAYQATRLLAHESQRGFGLSATQDVHFTENLLRVGSALLDTA 2119
Db 1693 RNATQHTAGYFGSDVKVAYQATRLLAHESQRGFGLSATQDVHFTENLLRVGSALLDTA 1752
Qy 2120 NKRHWELLQOTEGGTAWLLQHYEAYASALANRHTYLSPTFTVTPNIVISVRLDKGNF 2179
Db 1753 NKRHWELLQOTEGGTAWLLQHYEAYASALANRHTYLSPTFTVTPNIVISVRLDKGNF 1812
Qy 2180 AGAKLPRYALRGQPPDLETTVILPESVFRTPPVVRPAGGEAQEPEELARRORHPE 2239
Db 1813 AGAKLPRYALRGQPPDLETTVILPESVFRTPPVVRPAGGEAQEPEELARRORHPE 1872
Qy 2240 LSQGEAVASVIIYRTLAGLLPHNYDPDKRSLRVPKRPIINTPVVISVHDDDEELLPRALD 2299
Db 1873 LSQGEAVASVIIYRTLAGLLPHNYDPDKRSLRVPKRPIINTPVVISVHDDDEELLPRALD 1932
Qy 2300 KPVTVQFRLLEERTKPICVFWNHSILVSGTGWSARGCEVFRNESHVSCQCQNHMTSF 2359
Db 1933 KPVTVQFRLLEERTKPICVFWNHSILVSGTGWSARGCEVFRNESHVSCQCQNHMTSF 1992
Qy 2360 AVLMDVSRRENGEILPLKTLTYVALGVTLAAALLTFFFTLLRLIRSNQHGIRNLTAAL 2419

Db 1993 AVLMDVSRRENGEILPLKTLTYVALGVTLAAALLTFFFTLLRLIRSNQHGIRNLTAAL 2052
Qy 2420 GLAQVFLLLGNGADLPACTVIAILLHFLYLCFESWALLEALHLYRALTEVRDVTNTGPM 2479
Db 2053 GLAQVFLLLGNGADLPACTVIAILLHFLYLCFESWALLEALHLYRALTEVRDVTNTGPM 2112
Qy 2480 RPYMLGNGVPAPFITGLAVGLDPEGYGNPDPCWLSIYDTLWSPAGPVAFVMSVFLYI 2539
Db 2113 RPYMLGNGVPAPFITGLAVGLDPEGYGNPDPCWLSIYDTLWSPAGPVAFVMSVFLYI 2172
Qy 2540 LAARASCAAOQGGPKGKPVSGLOQSPFAVLLLSATWLLALLSVNSDILLHFLYLPATCNC 2599
Db 2173 LAARASCAAOQGGPKGKPVSGLOQSPFAVLLLSATWLLALLSVNSDILLHFLYLPATCNC 2232
Qy 2600 IQGPFIFLYSVVYLSKEVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSPYADGRLYQPY 2659
Db 2233 IQGPFIFLYSVVYLSKEVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSPYADGRLYQPY 2292
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Db 2293 GDSAGSLHSTSRSGKSQSPSYIPFLLRRESALNPGQPPGLG 2333

RESULT 10
US-10-311-623-9
; Sequence 9, Application US/10311623
; Publication No. US20040023244A1
; GENERAL INFORMATION:
; APPLICANT: INCYTE GENOMICS, INC.; GRIFFIN, Jennifer A.
; APPLICANT: KALLICK, Deborah A.; TRIBOULEY, Catherine M.
; APPLICANT: YUE, Henry; NGUYEN, Daniel B.
; APPLICANT: TANG, Y. Tom; LAL, Preeti G.
; APPLICANT: POLICKY, Jennifer L.; AZIMZAI, Yalda
; APPLICANT: LU, Dyung Aina M.; GRAUL, Richard C.
; APPLICANT: YAO, Monica G.; BURFORD, Neil
; APPLICANT: HAFALIA, April J. A.; BAUGHN, Mariah R.
; APPLICANT: BANDMAN, Olga; ARVIZO, Chandra S.
; APPLICANT: YANG, Junning; XU, Yuming
; APPLICANT: GANDHI, Aneena R.; WARREN, Bridget A.
; APPLICANT: DING, Li; SANJANWALA, Madhusudan M.
; APPLICANT: DUGGAN, Brendan M.; LU, Yan
; TITLE OF INVENTION: RECEPTORS
; FILE REFERENCE: PF-0793 USN
; CURRENT APPLICATION NUMBER: US/10/311,623
; CURRENT FILING DATE: 2002-12-17
; PRIOR APPLICATION NUMBER: US 01/19942
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: US 60/214,027
; PRIOR FILING DATE: 2000-06-21
; PRIOR APPLICATION NUMBER: US 60/228,045
; PRIOR FILING DATE: 2000-08-25
; PRIOR APPLICATION NUMBER: US 60/255,104
; PRIOR FILING DATE: 2000-12-12
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PERL Program
; SEQ ID NO 9
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. US20040023244A1 6977010CD1
US-10-311-623-9

Query Match 67.0%; Score 1958; DB 15; Length 2936;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1958; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 13 PPPPLLLLLLLLLPPPLGGDQVGCPSLGRSGSSGACAPMWLCPSSASNLWLYTSRC 72
Db 14 PPPPLLLLLLLLLPPPLGGDQVGCPSLGRSGSSGACAPMWLCPSSASNLWLYTSRC 73
Qy 73 RDAGTELTGHLVPHHDGLRVWCPSESAHILPPPAPEGCPWSCRLLIGGHLSPQCKLTLP 132

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Db      74  RDAGTETLGHVPHDGLRWCESEAHILPLPAPGCPWMSCHLLGIGHLSFQCKLTLP 133
Qy      133 BEHPCLKAPLRQCSCKLAQAGLRAGERSPEBSLGRRKRNVNTAPQPPPSYQATVPE 192
Db      134 BEHPCLKAPLRQCSCKLAQAGLRAGERSPEBSLGRRKRNVNTAPQPPPSYQATVPE 193
Qy      193 NOPAGTVASLRAIDPDGEGAGBLEYTMADALFDSRSNOFSLDPVTGAVTTAEELDRETK 252
Db      194 NOPAGTVASLRAIDPDGEGAGBLEYTMADALFDSRSNOFSLDPVTGAVTTAEELDRETK 253
Qy      253 STHVFRVTAQDHGMPRSALATILVTNDNDHDPVEQOEYKESRENLVGVYEVLTVR 312
Db      254 STHVFRVTAQDHGMPRSALATILVTNDNDHDPVEQOEYKESRENLVGVYEVLTVR 313
Qy      313 ATGDAPPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDVREVEYSQLTVEASDQ 372
Db      314 ATGDAPPANILYRLLEGSGSPSEVFEIDPRSGVIRTRGPDVREVEYSQLTVEASDQ 373
Qy      373 GRDGPSTTTAAVFLSVEDDNDNAPQSEKRYVQVREDVTPCAPVLRVTASDRDKGSA 432
Db      374 GRDGPSTTTAAVFLSVEDDNDNAPQSEKRYVQVREDVTPCAPVLRVTASDRDKGSA 433
Qy      433 VVHYSIMSGNARGQFYLDAGTALDVVSPLDYETTKETTLRVAQDGGRPPLSNVSGLVT 492
Db      434 VVHYSIMSGNARGQFYLDAGTALDVVSPLDYETTKETTLRVAQDGGRPPLSNVSGLVT 493
Qy      493 VQVLIDINDNAPIFVSTFQATVLESVPLGYLVHLVQVADADAGNARLEYRLAGVGHDPF 552
Db      494 VQVLIDINDNAPIFVSTFQATVLESVPLGYLVHLVQVADADAGNARLEYRLAGVGHDPF 553
Qy      553 FTINNGTGWISVAELDREEDVDFSGVEARDHGTPTALASASVTVTLVDNDNNFTTQ 612
Db      554 FTINNGTGWISVAELDREEDVDFSGVEARDHGTPTALASASVTVTLVDNDNNFTTQ 613
Qy      613 PEYTVRLNEADAAGTGVTVSVAVDRDAHSVITVQITSGNTRNRPSTTSQSGGGLVSLALP 672
Db      614 PEYTVRLNEADAAGTGVTVSVAVDRDAHSVITVQITSGNTRNRPSTTSQSGGGLVSLALP 673
Qy      673 LDYKLERQYVLAVTASDGTQDTAQIIVNVNTDANTHRPFVQSSHVTVVNNEDRPAGTTVV 732
Db      674 LDYKLERQYVLAVTASDGTQDTAQIIVNVNTDANTHRPFVQSSHVTVVNNEDRPAGTTVV 733
Qy      733 LISATDEDTGENARITYFMEDSIPQFRIDAGTAVTTQAELEDYEDQVSYTLATARDNGI 792
Db      734 LISATDEDTGENARITYFMEDSIPQFRIDAGTAVTTQAELEDYEDQVSYTLATARDNGI 793
Qy      793 POKSDTTTLETLVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISATDRDGLNGRVFY 852
Db      794 POKSDTTTLETLVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISATDRDGLNGRVFY 853
Qy      853 TFQGGDDGDGDFIVESTSGIVRTLRLDRENVAAQYVLRAYAVDKGMPPARTPMEVTVTL 912
Db      854 TFQGGDDGDGDFIVESTSGIVRTLRLDRENVAAQYVLRAYAVDKGMPPARTPMEVTVTL 913
Qy      913 DVNDNPPVEQDEDFVFEENSPIGLAVARTATDPDEGTNAQIMQIIVEGNTPPEVQLD 972
Db      914 DVNDNPPVEQDEDFVFEENSPIGLAVARTATDPDEGTNAQIMQIIVEGNTPPEVQLD 973
Qy      973 IFSGELTALVDLDEDRPEYVLVQATSAPIVSRATVHVRLDNDNPPVLGNFEILFNN 1032
Db      974 IFSGELTALVDLDEDRPEYVLVQATSAPIVSRATVHVRLDNDNPPVLGNFEILFNN 1033
Qy      1033 YVTVNRSSFPGGAIGRVPADHPDISLITYSFERGNSLSVLLNASTGELKLSRALDNNR 1092
Db      1034 YVTVNRSSFPGGAIGRVPADHPDISLITYSFERGNSLSVLLNASTGELKLSRALDNNR 1093
Qy      1093 PLEAIMSVLSDGVSHSVTAQALAVTITDMLTHSITLBLEDMSPERFLSPILGLFIOA 1152
Db      1094 PLEAIMSVLSDGVSHSVTAQALAVTITDMLTHSITLBLEDMSPERFLSPILGLFIOA 1153
Qy      1153 VAATLATPPDHVFNQVQRTDAPGCHILNVSLVSGQPPGPGGPPFLPSEDLOERLYLN 1212

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Db      1154 VAATLATPPDHVFNQVQRTDAPGCHILNVSLVSGQPPGPGGPPFLPSEDLOERLYLN 1213
Qy      1213 RSLTALISAQAVLPPDDNICLREPCENYMRVCVSLREDSAPRTASSSVLFRPHVPGGL 1272
Db      1214 RSLTALISAQAVLPPDDNICLREPCENYMRVCVSLREDSAPRTASSSVLFRPHVPGGL 1273
Qy      1273 RCRPPPGFTGYCETEVDLCYSRPGCPHGRCSRREGYTCLCRDGYTGEHCEVSARSRC 1332
Db      1274 RCRPPPGFTGYCETEVDLCYSRPGCPHGRCSRREGYTCLCRDGYTGEHCEVSARSRC 1333
Qy      1333 TPGVCKNGGTGNLLVGGFKCDPCSGDFEKPFCQVTTSPHAFSFIITFRGLRQRFHTLA 1392
Db      1334 TPGVCKNGGTGNLLVGGFKCDPCSGDFEKPFCQVTTSPHAFSFIITFRGLRQRFHTLA 1393
Qy      1393 LSPATKERDGLLLNGRPNKXHDFALEVOEQVLTFSAGESTTTTVSPFVPGVSGQW 1452
Db      1394 LSPATKERDGLLLNGRPNKXHDFALEVOEQVLTFSAGESTTTTVSPFVPGVSGQW 1453
Qy      1453 HTVOLKYNYKPLLGOTGLPQGPSEKQVAVTVVDCDGTGVALRFGSVLGNYSCTAAQGTQGG 1512
Db      1454 HTVOLKYNYKPLLGOTGLPQGPSEKQVAVTVVDCDGTGVALRFGSVLGNYSCTAAQGTQGG 1513
Qy      1513 SKKSLDLTGPLLLGVPDLPESPFVRMRQFVGMCRNLQVDSRHIDMADFIANNGTVPGCP 1572
Db      1514 SKKSLDLTGPLLLGVPDLPESPFVRMRQFVGMCRNLQVDSRHIDMADFIANNGTVPGCP 1573
Qy      1573 AKKNVCDSENTCHNGTGVNDWDAFSCPCPLGFGKSCAQEMANPOHFLGSSLVAMHGLSL 1632
Db      1574 AKKNVCDSENTCHNGTGVNDWDAFSCPCPLGFGKSCAQEMANPOHFLGSSLVAMHGLSL 1633
Qy      1633 PISQWYLSLMPFRTRQADGVLLQAITRGRSTITTLQREGHVMSVEGTGLQASSLRLEPG 1692
Db      1634 PISQWYLSLMPFRTRQADGVLLQAITRGRSTITTLQREGHVMSVEGTGLQASSLRLEPG 1693
Qy      1693 RANDGMWHAQALGASGPGGHAILSPDYGOQRAEGLNLPRLHGLHLSNITVGGIPGAP 1752
Db      1694 RANDGMWHAQALGASGPGGHAILSPDYGOQRAEGLNLPRLHGLHLSNITVGGIPGAP 1753
Qy      1753 GVARGFRCLQGVRSVDTPEGVNSLDPHSGESINVEQCSLPDPCDSNPCEANSYCSNDW 1812
Db      1754 GVARGFRCLQGVRSVDTPEGVNSLDPHSGESINVEQCSLPDPCDSNPCEANSYCSNDW 1813
Qy      1813 DSYSCSDPGYVGNCTNVCDLNPCCHOSVCTRPSAPHGYTCPPNYPGLPYCETRIDQ 1872
Db      1814 DSYSCSDPGYVGNCTNVCDLNPCCHOSVCTRPSAPHGYTCPPNYPGLPYCETRIDQ 1873
Qy      1873 PCPRGMWGHPTCGPCNCDVSKGDFDPCNKTSGECHKENHYRPPGSPPTCLLDCVPTGSL 1932
Db      1874 PCPRGMWGHPTCGPCNCDVSKGDFDPCNKTSGECHKENHYRPPGSPPTCLLDCVPTGSL 1933
Qy      1933 SRVCDPEDGQCPCKPGVIGROCDRCDNPPFAVTTNGCE 1970
Db      1934 SRVCDPEDGQCPCKPGVIGROCDRCDNPPFAVTTNGCE 1971

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RESULT 11

US-09-843-856-2
; Sequence 2, Application US/09843856
; Patent No. US20020034785A1

GENERAL INFORMATION:

APPLICANT: SOPPET, DANIEL R.
LI, YI
RUBEN, STEVEN M.

TITLE OF INVENTION: CALCITONIN RECEPTOR
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESS: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.
STREET: 1100 NEW YORK AVENUE, NW, SUITE 600
CITY: WASHINGTON
STATE: D.C.
COUNTRY: US
ZIP: 20005-3934
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/843,856
FILING DATE: 30-Apr-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/970,758
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: STEERE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0660001/EKS/KMT
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 568 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 2:

Query Match 18.3%; Score 534; DB 9; Length 568;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 534; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2388 LAALLTFFFTLLRLRNSHGIRRNLTAAALQVFLGQINQADLPFACTVIAILLH 2447
Db 33 LAALLTFFFTLLRLRNSHGIRRNLTAAALQVFLGQINQADLPFACTVIAILLH 92
Qy 2448 FLYLCTSWALLEALHLYRALTEVRDVTGPMRFYMLGWGVPFITGLAVGLDPEGYN 2507
Db 93 FLYLCTSWALLEALHLYRALTEVRDVTGPMRFYMLGWGVPFITGLAVGLDPEGYN 152
Qy 2508 PDFCWLSTYDTLIWSFAGPVAFVMSVFLYILAAASCAAQROQFEKKGPVSGLOQSF 2567
Db 153 PDFCWLSTYDTLIWSFAGPVAFVMSVFLYILAAASCAAQROQFEKKGPVSGLOQSF 212
Qy 2568 VLLLSATWLLALLSVNSDTLLFHYLFATNCIOGPFIFLSYVLSKEVRKALKACSRK 2627
Db 213 VLLLSATWLLALLSVNSDTLLFHYLFATNCIOGPFIFLSYVLSKEVRKALKACSRK 272
Qy 2628 PSPDPALTTKSTLTSSVNCPSYADGRLYQPYGDSAGSLHSTSRGKSQPSYIIFLLREE 2687
Db 273 PSPDPALTTKSTLTSSVNCPSYADGRLYQPYGDSAGSLHSTSRGKSQPSYIIFLLREE 332
Qy 2688 SALNPGQPPGLDPSLFLGQDQOQHPDPTSDSDLSLEDDQSGSYASTHSSDSEEEE 2747
Db 333 SALNPGQPPGLDPSLFLGQDQOQHPDPTSDSDLSLEDDQSGSYASTHSSDSEEEE 392
Qy 2748 EEBEAAFPBGQWDSLPGGAERLPLHSTPKDGGPGKAPWFCDFGTTAKESGNGAP 2807
Db 393 EEBEAAFPBGQWDSLPGGAERLPLHSTPKDGGPGKAPWFCDFGTTAKESGNGAP 452
Qy 2808 EERLRENGDALSRGSLGPLGSSAOPHKGIKKKCLPTISEKSLLLPLDQCTGSSRG 2867
Db 453 EERLRENGDALSRGSLGPLGSSAOPHKGIKKKCLPTISEKSLLLPLDQCTGSSRG 512
Qy 2868 SSASEGSRGPPPPPPRQSLQEQINGVMPITAMSIKAGTVDEDSGSEFLFFNF 2921
Db 513 SSASEGSRGPPPPPPRQSLQEQINGVMPITAMSIKAGTVDEDSGSEFLFFNF 566

RESULT 12

US-10-176-847-100
; Sequence 100, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:

; APPLICANT: Veiby, Petter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TITLE OF INVENTION: AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
; CURRENT FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 100
; LENGTH: 565
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-176-847-100

Query Match 16.6%; Score 485; DB 14; Length 565;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 485; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2430 INQADLPFACTVIAILLHLYLCTFSWALLEALHLYRALTEVRDVTGPMRFYMLGWG 2489
Db 74 INQADLPFACTVIAILLHLYLCTFSWALLEALHLYRALTEVRDVTGPMRFYMLGWG 133
Qy 2490 PAFITGLAVGLDPEGYNPDPCWLSIYDTLWSFAGPVAFVMSVFLYILAAASCAAQ 2549
Db 134 PAFITGLAVGLDPEGYNPDPCWLSIYDTLWSFAGPVAFVMSVFLYILAAASCAAQ 193
Qy 2550 RQFEKKGPVSGLOPSFAVLLLSATWLLALLSVNSDTLLFHYLFATNCIOGPFIFLSY 2609
Db 194 RQFEKKGPVSGLOPSFAVLLLSATWLLALLSVNSDTLLFHYLFATNCIOGPFIFLSY 253
Qy 2610 VVLSKEVRKALKACSRKSPDPALTTKSTLTSSVNCPSYADGRLYQPYGDSAGSLHST 2669
Db 254 VVLSKEVRKALKACSRKSPDPALTTKSTLTSSVNCPSYADGRLYQPYGDSAGSLHST 313
Qy 2670 SRSKGSQPSYIIFLLRRESALNPGQPPGLDPSLFLGQDQOQHPDPTSDSDLSLEDD 2729
Db 314 SRSKGSQPSYIIFLLRRESALNPGQPPGLDPSLFLGQDQOQHPDPTSDSDLSLEDD 373
Qy 2730 QSGSYASTHSSDSEEEEEEEAFAFQEQWDSILQGAERLPLHSTPKDGGPGKAP 2789
Db 374 QSGSYASTHSSDSEEEEEEEAFAFQEQWDSILQGAERLPLHSTPKDGGPGKAP 433
Qy 2790 WPGDFGTTAKESGNGAPERLRENGDALSRGSLGPLGSSAOPHKGIKKKCLPTISE 2849
Db 434 WPGDFGTTAKESGNGAPERLRENGDALSRGSLGPLGSSAOPHKGIKKKCLPTISE 493
Qy 2850 KSSLRLPLEQCTGSSRGSSASGSRGPPPPRQSLQEQINGVMPITAMSIKAGTVDE 2909
Db 494 KSSLRLPLEQCTGSSRGSSASGSRGPPPPRQSLQEQINGVMPITAMSIKAGTVDE 553
Qy 2910 DSSGS 2914
Db 554 DSSGS 558

RESULT 13

US-10-264-237-2041
; Sequence 2041, Application US/10264237
; Publication No. US20040009491A1
; GENERAL INFORMATION:
; APPLICANT: Birse et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA131P1
; CURRENT APPLICATION NUMBER: US/10/264,237
; CURRENT FILING DATE: 2002-10-04
; PRIOR APPLICATION NUMBER: PCT/US01/16450
; PRIOR FILING DATE: 2001-05-18
; PRIOR APPLICATION NUMBER: US 60/205,515
; PRIOR FILING DATE: 2000-05-19
; NUMBER OF SEQ ID NOS: 2876
; SOFTWARE: Patent In Ver. 3.1
; SEQ ID NO 2041

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; LENGTH: 568
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (83)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (240)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; FEATURE:
; NAME/KEY: MISC FEATURE
; LOCATION: (522)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; NAME/KEY: MISC FEATURE
; LOCATION: (522)
; OTHER INFORMATION: Xaa equals any of the twenty naturally occurring L-amino acids
; US-10-264-237-2041

Query Match          9.6%; Score 281; DB 15; Length 568;
Best Local Similarity 100.0%; Pred. No. 5.5e-214;
Matches 281; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2596 TCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSPYADGRL 2655
Db 241 TCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSPYADGRL 300
QY 2656 YQPYGDSAGSLHSTSRGSKPSYIPFLLREESALNPGQPPGLGDPGSLFLEGQDQOHD 2715
Db 301 YQPYGDSAGSLHSTSRGSKPSYIPFLLREESALNPGQPPGLGDPGSLFLEGQDQOHD 360
QY 2716 PDTDSDSLSDQSGSYASTHSSDSSEEEEEEEAAPPGEQWDSLLGPGAERLPLH 2775
Db 361 PDTDSDSLSDQSGSYASTHSSDSSEEEEEEEAAPPGEQWDSLLGPGAERLPLH 420
QY 2776 STPKDGGPGKAPWPGDFTTAKESGNGAPAEERLRENGDALSRGSLGPLGSSAAPH 2835
Db 421 STPKDGGPGKAPWPGDFTTAKESGNGAPAEERLRENGDALSRGSLGPLGSSAAPH 480
QY 2836 KGLKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASGSRG 2876
Db 481 KGLKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASGSRG 521

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RESULT 14
US-09-925-300-1299
; Sequence 1299, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PAL01
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 1299
; LENGTH: 717
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (39)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (147)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (181)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids

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; NAME/KEY: SITE
; LOCATION: (232)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (379)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (389)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (671)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; US-09-925-300-1299

Query Match          9.6%; Score 281; DB 9; Length 717;
Best Local Similarity 100.0%; Pred. No. 6.7e-214;
Matches 281; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2596 TCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSPYADGRL 2655
Db 390 TCNCIQGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSPYADGRL 449
QY 2656 YQPYGDSAGSLHSTSRGSKPSYIPFLLREESALNPGQPPGLGDPGSLFLEGQDQOHD 2715
Db 450 YQPYGDSAGSLHSTSRGSKPSYIPFLLREESALNPGQPPGLGDPGSLFLEGQDQOHD 509
QY 2716 PDTDSDSLSDQSGSYASTHSSDSSEEEEEEEAAPPGEQWDSLLGPGAERLPLH 2775
Db 510 PDTDSDSLSDQSGSYASTHSSDSSEEEEEEEAAPPGEQWDSLLGPGAERLPLH 569
QY 2776 STPKDGGPGKAPWPGDFTTAKESGNGAPAEERLRENGDALSRGSLGPLGSSAAPH 2835
Db 570 STPKDGGPGKAPWPGDFTTAKESGNGAPAEERLRENGDALSRGSLGPLGSSAAPH 629
QY 2836 KGLKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASGSRG 2876
Db 630 KGLKKKCLPTISEKSSLLRLPLEQCTGSSRGSSASGSRG 670

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RESULT 15
US-10-017-161-1096
; Sequence 1096, Application US/10017161
; Publication No. US2003014368A1
; GENERAL INFORMATION:
; APPLICANT: SUWA, MAKIKO
; APPLICANT: ASAI, KIYOSHI
; APPLICANT: AKIYAMA, YUTAKA
; APPLICANT: ABURATANI, HIROYUKI
; TITLE OF INVENTION: NOVEL G PROTEIN-COUPLED RECEPTORS
; FILE REFERENCE: 084335/0152
; CURRENT APPLICATION NUMBER: US/10/017,161
; CURRENT FILING DATE: 2002-12-18
; PRIOR APPLICATION NUMBER: JP 2001/246789
; PRIOR FILING DATE: 2001-06-18
; NUMBER OF SEQ ID NOS: 2430
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 1096
; LENGTH: 646
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-017-161-1096

Query Match          6.1%; Score 179; DB 14; Length 646;
Best Local Similarity 100.0%; Pred. No. 5.5e-133;
Matches 179; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2601 QGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSPYADGRLYPYQ 2660
Db 221 QGPFIFLSYVVLKSKVRKALKACSRKPSDPDPALTTKSTLTSSYNCPSPYADGRLYPYQ 280
QY 2661 DSAGSLHSTSRGSKPSYIPFLLREESALNPGQPPGLGDPGSLFLEGQDQOHDPTDS 2720
Db 281 DSAGSLHSTSRGSKPSYIPFLLREESALNPGQPPGLGDPGSLFLEGQDQOHDPTDS 340

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